Volker SchÃ¼nemann

List of Publications by Year
in descending order

138	6,865	94433 37	62596 80
papers	citations	h-index	g-index

147	147	147	9074
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetically Separable Nanocatalysts: Bridges between Homogeneous and Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2010, 49, 3428-3459.	13.8	1,325
2	Nanoscale Fe ₂ O ₃ -Based Catalysts for Selective Hydrogenation of Nitroarenes to Anilines. Science, 2013, 342, 1073-1076.	12.6	868
3	Iron, neuromelanin and ferritin content in the substantia nigra of normal subjects at different ages: consequences for iron storage and neurodegenerative processes. Journal of Neurochemistry, 2001, 76, 1766-1773.	3.9	350
4	Catalysts for the Oxygen Reduction from Heat-Treated Iron(III) Tetramethoxyphenylporphyrin Chloride:Â Structure and Stability of Active Sites. Journal of Physical Chemistry B, 2003, 107, 9034-9041.	2.6	327
5	A comparative study of the physicochemical properties of iron isomaltoside 1000 (MonoferÂ®), a new intravenous iron preparation and its clinical implications. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 78, 480-491.	4.3	220
6	Iron-binding characteristics of neuromelanin of the human substantia nigra. Biochemical Pharmacology, 2003, 66, 489-494.	4.4	189
7	Structure and dynamics of biomolecules studied by MÃ¶ssbauer spectroscopy. Reports on Progress in Physics, 2000, 63, 263-353.	20.1	136
8	Is the Corrolate Macrocycle Innocent or Noninnocent? Magnetic Susceptibility, MÃ¶ssbauer,1H NMR, and DFT Investigations of Chloro- and Phenyliron Corrolates. Journal of the American Chemical Society, 2002, 124, 6636-6648.	13.7	123
9	Self-Assembly of Tetrahedral and Trigonal Antiprismatic Clusters [Fe4(L4)4] and [Fe6(L5)6] on the Basis of Trigonal Tris-Bidentate Chelators. Chemistry - A European Journal, 2002, 8, 493-497.	3.3	105
10	Identifying active sites for fast NH3-SCR of NO/NO2 mixtures over Fe-ZSM-5 by operando EPR and UVâ€“vis spectroscopy. Journal of Catalysis, 2014, 316, 103-111.	6.2	104
11	Structural Organization of Essential Iron-Sulfur Clusters in the Evolutionarily Highly Conserved ATP-binding Cassette Protein ABCE1. Journal of Biological Chemistry, 2007, 282, 14598-14607.	3.4	99
12	The Presence of an Iron-Sulfur Cluster in Adenosine 5â€²-Phosphosulfate Reductase Separates Organisms Utilizing Adenosine 5â€²-Phosphosulfate and Phosphoadenosine 5â€²-Phosphosulfate for Sulfate Assimilation. Journal of Biological Chemistry, 2002, 277, 21786-21791.	3.4	96
13	Topologic Equivalents of Coronands, Cryptands and Their Inclusion Complexes: Synthesis, Structure and Properties of {2}â€Metallacryptands and {2}â€Metallacryptates. Chemistry - A European Journal, 1997, 3, 2058-2062.	3.3	94
14	Vibrational spectrum of the spin crossover complex [Fe(phen)2(NCS)2] studied by IR and Raman spectroscopy, nuclear inelastic scattering and DFT calculations. Physical Chemistry Chemical Physics, 2006, 8, 4685-4693.	2.8	93
15	Structural, Magnetic, and Dynamic Characterization of the (dxz,dyz)4(dxy)1Ground-State Low-Spin Iron(III) Tetraphenylporphyrinate Complex [(p-TTP)Fe(2,6-XylylNC)2]CF3SO3. Journal of the American Chemical Society, 2000, 122, 4366-4377.	13.7	92
16	Progress in Electronic Structure Calculations on Spinâ€Crossover Complexes. European Journal of Inorganic Chemistry, 2013, 2013, 628-641.	2.0	92
17	Tyrosine Radical Formation in the Reaction of Wild Type and Mutant Cytochrome P450cam with Peroxy Acids. Journal of Biological Chemistry, 2004, 279, 10919-10930.	3.4	90
18	Elucidating the Structural Composition of an Feâ€“Nâ€“C Catalyst by Nuclearâ€•and Electronâ€Resonance Techniques. Angewandte Chemie - International Edition, 2019, 58, 10486-10492.	13.8	90

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19	Sulfide Oxidation by Hydrogen Peroxide Catalyzed by Iron Complexes: Two Metal Centers Are Better Than One. Chemistry - A European Journal, 2002, 8, 1196.	3.3	89
20	Electronic Structure of Linear Thiophenolate-Bridged Heterotrinuclear Complexes [LFeMFeL]n+(M =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2193-2208.	13.7	84
21	Radical S-Adenosylmethionine Enzyme Coproporphyrinogen III Oxidase HemN. Journal of Biological Chemistry, 2005, 280, 29038-29046.	3.4	81
22	Plant Adenosine 5â€²-Phosphosulfate Reductase Is a Novel Iron-Sulfur Protein. Journal of Biological Chemistry, 2001, 276, 42881-42886.	3.4	77
23	Isoprenoid biosynthesis in chloroplasts via the methylerythritol phosphate pathway: the (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (GcpE) from Arabidopsis thaliana is a [4Fe?4S] protein. Journal of Biological Inorganic Chemistry, 2005, 10, 131-137.	2.6	73
24	Structural, Spectroscopic, and Chemical Properties of the First Low-Spin Iron(III) Semiquinonate Complexes in the Solid State and in Solution. Chemistry - A European Journal, 1998, 4, 1255-1265.	3.3	70
25	Sub-picosecond time resolved infrared spectroscopy of high-spin state formation in Fe(ii) spin crossover complexes. Physical Chemistry Chemical Physics, 2008, 10, 4264.	2.8	70
26	FhuF, an iron-regulated protein of Escherichia coli with a new type of [2Fe-2S] center. FEBS Journal, 1998, 258, 1001-1008.	0.2	55
27	Crystallographic and Spectroscopic Studies of Peroxide-derived Myoglobin Compound II and Occurrence of Protonated FeIVâ€“O. Journal of Biological Chemistry, 2007, 282, 23372-23386.	3.4	53
28	Density functional theory calculations and vibrational spectroscopy on iron spin-crossover compounds. Coordination Chemistry Reviews, 2009, 253, 2423-2431.	18.8	52
29	Vibrational Spectroscopy of Monoâ€•and Polynuclear Spinâ€Crossover Systems. European Journal of Inorganic Chemistry, 2012, 2012, 2635-2648.	2.0	50
30	A luminescent Pt₂Fe spin crossover complex. Dalton Transactions, 2017, 46, 2289-2302.	3.3	49
31	Eight-Coordinate Iron(II) and Iron(III) Ions in Complexes with Distorted Dodecahedral FeN8 Environments: Synthesis and Structures of Bis(2,11-diaza[3.3](2,6)pyridinophane)iron Complexes. Angewandte Chemie International Edition in English, 1996, 35, 422-424.	4.4	44
32	Evidence for an Unusual Thermally Induced Low-Spin (S=1/2) â‡„ Intermediate-Spin (S=3/2) Transition in a Six-Coordinate Iron(III) Complex: Structure and Electronic Properties of a (1,2-Benzenedithiolato)iron(III) Complex ContainingN,Nâ€²-Dimethyl-2,11-diaza[3.3](2,6)pyridinophane as Ligand. Chemistry - A European Journal, 1998, 4, 686-691.	3.3	44
33	Mossbauer, Electron-Paramagnetic-Resonance and X-ray-Absorption Fine-Structure Studies of the Iron Environment in Recombinant Human Tyrosine Hydroxylase. FEBS Journal, 1996, 241, 432-439.	0.2	41
34	A Neutral, Triple-Helical, Trinuclear, Oxo-Centered Mixed-Valence Iron Complex. Angewandte Chemie International Edition in English, 1996, 35, 2206-2208.	4.4	41
35	Divergent Coordination Chemistry: Parallel Synthesis of [2Ã—2] Iron(II) Gridâ€Complex Tautoâ€Conformers. Angewandte Chemie - International Edition, 2016, 55, 10881-10885.	13.8	41
36	MÃ¶ssbauer studies of coordination compounds using synchrotron radiation. Coordination Chemistry Reviews, 2005, 249, 255-272.	18.8	40

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37	Metastable Isonitrosyl Structure of the Nitroprusside Anion Confirmed by Nuclear Inelastic Scattering. Journal of the American Chemical Society, 2002, 124, 3007-3011.	13.7	37
38	Metal- and Ligand-Directed One-Pot Syntheses, Crystal Structures, and Properties of Novel Oxo-Centered Tetra- and Hexametallic Clusters Chelate Complexes, Part 22; for Part 21 see reference 12.. Chemistry - A European Journal, 2002, 8, 3614.	3.3	35
39	Freeze-quenched iron-oxo intermediates in cytochromes P450. Biochemical and Biophysical Research Communications, 2005, 338, 355-364.	2.1	34
40	Biosynthesis of Isoprene Units: MÃ¶ssbauer Spectroscopy of Substrate and Inhibitor Binding to the [4Feâ€4S] Cluster of the LytB/IspH Enzyme. Angewandte Chemie - International Edition, 2011, 50, 11976-11979.	13.8	34
41	New activation mechanism for half-sandwich organometallic anticancer complexes. Chemical Science, 2018, 9, 3177-3185.	7.4	34
42	Spectroscopic characterization of the iron-oxo intermediate in cytochrome P450. Biological Chemistry, 2005, 386, 1043-53.	2.5	31
43	Iron uptake and intracellular metal transfer in mycobacteria mediated by xenosiderophores. BioMetals, 1997, 10, 193-203.	4.1	30
44	Spectroscopic characterization of cytochrome P450 Compound I. Archives of Biochemistry and Biophysics, 2011, 507, 44-55.	3.0	30
45	Supramolecular Iron Metallocubanes Exhibiting Site-Selective Thermal and Light-Induced Spin-Crossover. Journal of the American Chemical Society, 2019, 141, 18759-18770.	13.7	30
46	Characterization of Iron(III) Tetramesitylporphyrin and Microperoxidase-8 Incorporated into the Molecular Sieve MCM-41. Inorganic Chemistry, 1999, 38, 4901-4905.	4.0	29
47	Models of the Membrane-Bound Cytochromes:Â MÃ¶ssbauer Spectra of Crystalline Low-Spin Ferriheme Complexes Having Axial Ligand Plane Dihedral Angles Ranging from 0Â° to 90Â°. Journal of the American Chemical Society, 2006, 128, 1379-1389.	13.7	28
48	Twoâ€Step Spin Transition in a 1D Fe^{II} 1,2,4â€Triazole Chain Compound. Chemistry - A European Journal, 2015, 21, 5843-5855.	3.3	28
49	Effect of sulfonamidoethylenediamine substituents in Ru^{II} arene anticancer catalysts on transfer hydrogenation of coenzyme NAD⁺ by formate. Dalton Transactions, 2018, 47, 7178-7189.	3.3	28
50	Molecular Structure of the Chloroiron(III) Derivative of the mesoâ€Unsubstituted 2,7,12,17â€Tetramethylâ€3,8,13,18â€tetramesitylporphyrin and Weak Ferromagnetic Exchange Interactions in the A_{1u} Oxoiron(IV) Porphyrin Ï€ Radical Cation Complex. Chemistry - A European Journal, 1996, 2, 1159-1163.	3.3	27
51	Vibrational properties of the trinuclear spin crossover complex [Fe3(4-(2â€²-hydroxy-ethyl)-1,2,4-triazole)6(H2O)6](CF3SO3)6: a nuclear inelastic scattering, IR, Raman and DFT study. Physical Chemistry Chemical Physics, 2010, 12, 14782.	2.8	27
52	The unusual structure of Ruminococcin C1 antimicrobial peptide confers clinical properties. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19168-19177.	7.1	25
53	A Diferric Peroxo Complex with an Unprecedented Spin Configuration: AnS=2 System Arising from anS=5/2, 1/2 Pair. Angewandte Chemie - International Edition, 2002, 41, 617-620.	13.8	24
54	Models of the bis-histidine-coordinated ferricytochromes: MÃ¶ssbauer and EPR spectroscopic studies of low-spin iron(III) tetrapyrroles of various electronic ground states and axial ligand orientations. Journal of Biological Inorganic Chemistry, 2003, 8, 787-801.	2.6	23

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55	Vibrational properties of the polymeric spin crossover (SCO) Fe(ii) complexes [{Fe(4-amino-1,2,4-triazole)3}X2]n: a nuclear inelastic scattering (NIS), Raman and DFT study. Physical Chemistry Chemical Physics, 2012, 14, 14650.	2.8	23
56	Electronic Effects in the Catalytic Hydrosilylation with Inâ€Situ Generated Iron(II)â€Catalysts. ChemCatChem, 2011, 3, 887-892.	3.7	22
57	Quantification of intramolecular cooperativity in polynuclear spin crossover Fe(ii) complexes by density functional theory calculations. Physical Chemistry Chemical Physics, 2013, 15, 15450.	2.8	22
58	Estimate of the vibrational contribution to the entropy change associated with the spin transition in the d4systems [MnIII(pyrol)3tren] and [CrII(depe)2I2]. Physical Chemistry Chemical Physics, 2007, 9, 1194-1201.	2.8	21
59	Apd1 and Aim32 Are Prototypes of Bishistidinyl-Coordinated Non-Rieske [2Feâ€“2S] Proteins. Journal of the American Chemical Society, 2019, 141, 5753-5765.	13.7	21
60	Spectroscopic techniques to characterize the spin state: Vibrational, optical, MÃ¶ssbauer, NMR, and X-ray spectroscopy. Comptes Rendus Chimie, 2018, 21, 1152-1169.	0.5	20
61	Effect of Oxidation and Protonation States on [2Feâ€“2S] Cluster Nitrosylation Giving {Fe(NO)₂}⁹ Dinitrosyl Iron Complexes (DNICs). Inorganic Chemistry, 2019, 58, 769-784.	4.0	20
62	A free boratriptycene-type Lewis superacid. Chemical Science, 2022, 13, 1608-1617.	7.4	20
63	Facile Synthesis of Monodisperse Maghemite and Ferrite Nanocrystals from Metal Powder and Octanoic Acid. Chemistry of Materials, 2013, 25, 1430-1435.	6.7	19
64	Active Sites of the Selective Catalytic Reduction of NO by NH₃ over Fe-ZSM-5: Combining Reaction Kinetics with Postcatalytic MÃ¶ssbauer Spectroscopy at Cryogenic Temperatures. ACS Catalysis, 2020, 10, 3119-3130.	11.2	19
65	Iron coordination geometry in full-length, truncated, and dehydrated forms of human tyrosine hydroxylase studied by MÃ¶ssbauer and X-ray absorption spectroscopy. Journal of Biological Inorganic Chemistry, 1999, 4, 223-231.	2.6	18
66	Ligand strain and conformations in a family of Fe(ii) spin crossover hexadentate complexes involving the 2-pyridylmethyl-amino moiety: DFT modelling. Physical Chemistry Chemical Physics, 2013, 15, 7411.	2.8	18
67	Spin relaxation in antiferromagnetic Feâ€“Fe dimers slowed down by anisotropic Dy^{III} ions. Beilstein Journal of Nanotechnology, 2013, 4, 807-814.	2.8	18
68	¹⁶¹Dy Timeâ€Domain Synchrotron MÃ¶ssbauer Spectroscopy for Investigating Singleâ€Molecule Magnets Incorporating Dy Ions. Angewandte Chemie - International Edition, 2019, 58, 3444-3449.	13.8	18
69	MÃ¶ssbauer spectroscopic studies of the sixâ€coordinate hemeâ€"nitric oxide complex of iron(III) octaethylporphyrin Nâ€methylimidazole, the first model of the nitrophorinâ€"no complexes. Israel Journal of Chemistry, 2000, 40, 9-14.	2.3	17
70	Spectroscopic Studies on Iron Complexes of Different Anthracyclines in Aprotic Solvent Systems. Inorganic Chemistry, 2001, 40, 5324-5333.	4.0	17
71	Low-Temperature EPR and MÃ¶ssbauer Spectroscopy of Two Cytochromes with Hisâ€“Met Axial Coordination Exhibiting HALS Signals. ChemPhysChem, 2006, 7, 1258-1267.	2.1	17
72	Synthesis of an Iron(IV) Aquaâ€“Oxido Complex Using Ozone as an Oxidant. Angewandte Chemie - International Edition, 2018, 57, 5355-5358.	13.8	17

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73	A New Ironâ€Based Carbon Monoxide Oxidation Catalyst: Structureâ€“Activity Correlation. ChemPhysChem, 2014, 15, 3768-3775.	2.1	16
74	Relevance of supramolecular interactions, texture and lattice occupancy in the designer iron(II) spin crossover complexes. Journal of Solid State Chemistry, 2009, 182, 1365-1376.	2.9	15
75	Protonation State of MnFe and FeFe Cofactors in a Ligand-Binding Oxidase Revealed by X-ray Absorption, Emission, and Vibrational Spectroscopy and QM/MM Calculations. Inorganic Chemistry, 2016, 55, 9869-9885.	4.0	15
76	ESEEM and MÃ¶ssbauer studies of the ferriheme model compound bis(3-aminopyrazole)tetraphenylporphyrinatoiron(III) chloride, [TPPFe(NH2PzH)2]Cl. Journal of Biological Inorganic Chemistry, 1999, 4, 708-716.	2.6	14
77	Low potential enzymatic hydride transfer via highly cooperative and inversely functionalized flavin cofactors. Nature Communications, 2019, 10, 2074.	12.8	14
78	Elucidating the Structural Composition of an Feâ€“Nâ€“C Catalyst by Nuclearâ€and Electronâ€Resonance Techniques. Angewandte Chemie, 2019, 131, 10596-10602.	2.0	13
79	Endogenous tetrahydroisoquinolines associated with Parkinsonâ€™s disease mimic the feedback inhibition of tyrosine hydroxylase by catecholamines. FEBS Journal, 2008, 275, 2109-2121.	4.7	12
80	Nuclear inelastic scattering of 1D polymeric Fe(II) complexes of 1,2,4-aminotriazole in their high-spin and low-spin state. Hyperfine Interactions, 2012, 204, 129-132.	0.5	12
81	Isoprenoid Biosynthesis in Pathogenic Bacteria: Nuclear Resonance Vibrational Spectroscopy Provides Insight into the Unusual [4Feâ€4S] Cluster of the E.â€...coli LytB/IspH Protein. Angewandte Chemie - International Edition, 2015, 54, 12584-12587.	13.8	12
82	MÃ¶ssbauer Spectroscopic Characterization of Iron(III)â€“Polysaccharide Coordination Complexes: Photochemistry, Biological, and Photoresponsive Materials Implications. Inorganic Chemistry, 2017, 56, 11524-11531.	4.0	12
83	Exploring the Vibrational Side of Spinâ€Phonon Coupling in Singleâ€Molecule Magnets via ¹⁶¹Dy Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 8818-8822.	13.8	12
84	Fe(ii) complex with the octadentate btpa ligand: a DFT study on a spin-crossover system that reveals two distinct high-spin states. Physical Chemistry Chemical Physics, 2009, 11, 7562.	2.8	11
85	Vibrational Coupling of Nearest Neighbors in 1-D Spin Crossover Polymers of Rigid Bridging Ligands. A Nuclear Inelastic Scattering and DFT Study. Magnetochemistry, 2016, 2, 19.	2.4	11
86	Homo-/Heterotrinuclear Mixed-Valent Oxo-Centered Iron/Nickel Clustersâ€”MÃ¶ssbauer Studies on Internal Electron-Exchange Processes. Chemistry - A European Journal, 2005, 11, 5843-5848.	3.3	10
87	Nuclear inelastic scattering and density functional theory studies of a one-dimensional spin crossover [Fe(1,2,4-triazole)₂(1,2,4-triazolato)](BF₄) molecular chain. Physical Chemistry Chemical Physics, 2017, 19, 18880-18889.	2.8	10
88	Synthesis of an Iron(IV) Aquaâ€“Oxido Complex Using Ozone as an Oxidant. Angewandte Chemie, 2018, 130, 5453-5456.	2.0	10
89	FeIIComplexes with TripleN1,N2-Triazole Bridge Schiff Base Ligand: Antiferromagnetic Dimer vs. Spin Conversion Trimer. European Journal of Inorganic Chemistry, 2018, 2018, 4190-4199.	2.0	10
90	Synthesis, Structure, and Magnetic Properties of a 2,2â€Dipyridylâ€2,5â€dihydroâ€imidazoleâ€1â€oxylâ€(Lâ€)Bridged Disilver Complex [Ag₂L₂](SbF₆)₂: A Fourâ€Membered Ring from two Ag(I) Ions and two Imine Nitrogen Atoms. Chemische Berichte, 1996, 129, 571-573.	0.2	9

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91	Trinuclear Oxo-Centered Iron and Iron/Nickel Clusters - Ligand-Controlled Homo/Hetero Valency. European Journal of Inorganic Chemistry, 2005, 2005, 1383-1387.	2.0	9
92	Surface binding, localization and storage of iron in the giant kelp Macrocystis pyrifera. Metallomics, 2016, 8, 403-411.	2.4	9
93	Vibrational properties and cooperativity of the 3D spin crossover network [Fe(pyrazine)][Pt(CN)₄]. Dalton Transactions, 2019, 48, 15625-15634.	3.3	9
94	Pronounced Magnetic Bistability in Highly Cooperative Mononuclear [Fe(L^{npdtz})₂(NCX)₂] Complexes. Inorganic Chemistry, 2022, 61, 3141-3151.	4.0	9
95	Reactive complexes in myoglobin and nitric oxide synthase. Inorganica Chimica Acta, 2008, 361, 831-843.	2.4	8
96	MÃ¶ssbauer spectroscopy of protein-passivated iron oxide nanoparticles. Hyperfine Interactions, 2012, 205, 121-124.	0.5	8
97	Enhancement of Spin Relaxation in an FeDy₂Fe Coordination Cluster by Magnetic Fields. Chemistry - A European Journal, 2014, 20, 12381-12384.	3.3	8
98	Quinone Reduction by Organo-Osmium Half-Sandwich Transfer Hydrogenation Catalysts. Organometallics, 2021, 40, 3012-3023.	2.3	8
99	Transport and utilization of rhizoferrin bound iron in Mycobacterium smegmatis. BioMetals, 1999, 12, 315-321.	4.1	7
100	Characterization of the photolyase-like iron sulfur protein PhrB from Agrobacterium tumefaciens by MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2014, 226, 445-449.	0.5	7
101	Spin State Crossover, Vibrational, Computational, and Structural Studies of Fe^{II} 1â€²sopropylâ€¦Hâ€²tetrazole Derivatives. European Journal of Inorganic Chemistry, 2018, 2018, 394-413.	2.0	7
102	Vibrational Motions Make Significant Contributions to Sequential Methyl Câ€“H Activations in an Organometallic Complex. Journal of Physical Chemistry Letters, 2021, 12, 658-662.	4.6	7
103	Abrupt Spin Crossover Behavior in a Linear N1,N2-Triazole Bridged Trinuclear Fe(II) Complex. Magnetochemistry, 2018, 4, 34.	2.4	6
104	Atomistic simulations of spin-switch dynamics in multinuclear chain-like triazole spin-crossover molecules. Chemical Physics Letters, 2019, 733, 136666.	2.6	6
105	Spatiotemporal Studies of the Oneâ€Dimensional Coordination Polymer [Fe(ebtz)₂(C₂H₅CN)₂](BF₄)₂: Tug of War between the Nitrile Reorientation Versus Crystal Lattice as a Tool for Tuning the Spin Crossover Properties**. Chemistry - A European Journal, 2020, 26, 14419-14434.	3.3	6
106	New Spin-Crossover Compounds Containing the [Ni(mnt)] Anion (mnt = Maleonitriledithiolate). Magnetochemistry, 2021, 7, 72.	2.4	6
107	Electron inventory of the iron-sulfur scaffold complex HypCD essential in [NiFe]-hydrogenase cofactor assembly. Biochemical Journal, 2021, 478, 3281-3295.	3.7	6
108	Unusual metal-ligand charge transfer in ferrocene functionalized Î¼3-O iron carboxylates observed with MÃ¶ssbauer spectroscopy. Journal of Magnetism and Magnetic Materials, 2016, 407, 87-91.	2.3	5

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109	Synthesis and properties of a heterobimetallic iron-manganese complex and its comparison with homobimetallic analogues. Inorganica Chimica Acta, 2019, 490, 254-260.	2.4	5
110	Cu(<scp>iii</scp>)â€“bis-thiolato complex forms an unusual mono-thiolato Cu(<scp>iii</scp>)â€“peroxido adduct. Chemical Communications, 2021, 57, 69-72.	4.1	5
111	Iron uptake and storage in the HAB dinoflagellate Lingulodinium polyedrum. BioMetals, 2017, 30, 945-953.	4.1	4
112	161 Dy Timeâ€Domain Synchrotron MÃ¶ssbauer Spectroscopy for Investigating Singleâ€Molecule Magnets Incorporating Dy Ions. Angewandte Chemie, 2019, 131, 3482-3487.	2.0	4
113	The ABCB7-Like Transporter PexA in Rhodobacter capsulatus Is Involved in the Translocation of Reactive Sulfur Species. Frontiers in Microbiology, 2019, 10, 406.	3.5	4
114	Untersuchung von Schwingungen in Bezug auf Spinâ€Phononâ€Kopplung in EinzelmolekÃ¼lmagneten mittels nuklearer inelastischer Streuung am 161 Dyâ€Kern. Angewandte Chemie, 2020, 132, 8902-8907.	2.0	4
115	Vibrational properties of 1D- and 3D polynuclear spin crossover Fe(II) urea-triazoles polymer chains and quantification of intrachain cooperativity. Journal of Physics Condensed Matter, 2021, 33, 034004.	1.8	4
116	Nuclear inelastic scattering of heme proteins: from iron ligand vibrations to low energy protein modes. Hyperfine Interactions, 2012, 206, 19-22.	0.5	3
117	Ferric ion (hydr)oxo clusters in the â€œVenus flytrapâ€•cleft of FbpA: MÃ¶ssbauer, calorimetric and mass spectrometric studies. Journal of Biological Inorganic Chemistry, 2012, 17, 573-588.	2.6	3
118	Multivariate Curve Resolution and Carbon Balance Constraint to Unravel FTIR Spectra from Fed-Batch Fermentation Samples. Bioengineering, 2017, 4, 9.	3.5	3
119	Density functional theory investigation of Ru(<scp>ii</scp>) and Os(<scp>ii</scp>) asymmetric transfer hydrogenation catalysts. Faraday Discussions, 2022, , .	3.2	3
120	Interpretation of Nuclear Resonant Vibrational Spectra of Rubredoxin Using a Combined Quantum Mechanics and Molecular Mechanics Approach. ChemPhysChem, 2011, 12, 3434-3441.	2.1	2
121	Installation of an IR microscope at the nuclear resonance beamline ID18 of ESRF. Hyperfine Interactions, 2012, 206, 63-66.	0.5	2
122	Nuclear inelastic scattering studies on a dinuclear iron(II) spin crossover complex. Hyperfine Interactions, 2014, 226, 211-216.	0.5	2
123	Correction: Surface binding, localization and storage of iron in the giant kelp Macrocystis pyrifera. Metallomics, 2016, 8, 551-551.	2.4	2
124	Exploration of iron ligand modes in dimeric iron (II) complexes by nuclear resonance scattering. Hyperfine Interactions, 2020, 241, 1.	0.5	2
125	From Small Molecules to Complex Systems: A Survey of Chemical and Biological Applications of the MÃ¶ssbauer Effect. Topics in Applied Physics, 2021, , 173-219.	0.8	2
126	High-Repetition Rate Optical Pumpâ€“Nuclear Resonance Probe Experiments Identify Transient Molecular Vibrations after Photoexcitation of a Spin Crossover Material. Journal of Physical Chemistry Letters, 2021, 12, 3240-3245.	4.6	2

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127	Quality or Quantity? How Structural Parameters Affect Catalytic Activity of Iron Oxides for CO Oxidation. Catalysts, 2022, 12, 675.	3.5	2
128	Generation of maghemite nanocrystals from ironâ€“sulfur centres. Dalton Transactions, 2019, 48, 9564-9569.	3.3	1
129	Preparation and characterization of spin crossover thin solid films. Hyperfine Interactions, 2019, 240, 1.	0.5	1
130	Influence of ligand substitution on magnetic hyperfine interaction in Dy6-based single-molecule magnets/toroics. Hyperfine Interactions, 2019, 240, 1.	0.5	1
131	Characterization of Mycobacterium tuberculosis ferredoxin with MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2019, 240, 1.	0.5	1
132	Light-induced spin transition in the spin-crossover complex FePt2 detected by optical pump -coherent resonant nuclear elastic scattering. Hyperfine Interactions, 2020, 241, 1.	0.5	1
133	A new sample environment for cryogenic nuclear resonance scattering experiments on single crystals and microsamples at P01, PETRA III. Hyperfine Interactions, 2014, 226, 673-678.	0.5	0
134	Site-selective detection of vibrational modes of an iron atom in a trinuclear complex. Hyperfine Interactions, 2016, 237, 1.	0.5	0
135	RÃ¼cktitelbild: 161 Dy Time-Domain Synchrotron MÃ¶ssbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions (Angew. Chem. 11/2019). Angewandte Chemie, 2019, 131, 3690-3690.	2.0	0
136	Frontispiz: Untersuchung von Schwingungen in Bezug auf Spinâ€Phononâ€Kopplung in EinzelmolekÃ¼lmagneten mittels nuklearer inelastischer Streuung am ¹⁶¹Dyâ€Kern. Angewandte Chemie, 2020, 132, .	2.0	0
137	Frontispiece: Exploring the Vibrational Side of Spinâ€Phonon Coupling in Singleâ€Molecule Magnets via ¹⁶¹Dy Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0
138	Vibrational properties of the mononuclear Fe[HBpz3]2 spin crossover complex. Hyperfine Interactions, 2022, 243, 1.	0.5	0