

Volker SchÄ¼nemann

List of Publications by Year in descending order

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138
papers

6,865
citations

94433

37
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62596

80
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147
all docs

147
docs citations

147
times ranked

9074
citing authors

#	ARTICLE	IF	CITATIONS
1	A free boratriptycene-type Lewis superacid. <i>Chemical Science</i> , 2022, 13, 1608-1617.	7.4	20
2	Pronounced Magnetic Bistability in Highly Cooperative Mononuclear [Fe(L ^{npdtz}) ₂ (NCX) ₂] Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 3141-3151.	4.0	9
3	Density functional theory investigation of Ru(ⁱⁱ) and Os(ⁱⁱ) asymmetric transfer hydrogenation catalysts. <i>Faraday Discussions</i> , 2022, , .	3.2	3
4	Vibrational properties of the mononuclear Fe[HBpz3] ₂ spin crossover complex. <i>Hyperfine Interactions</i> , 2022, 243, 1.	0.5	0
5	Quality or Quantity? How Structural Parameters Affect Catalytic Activity of Iron Oxides for CO Oxidation. <i>Catalysts</i> , 2022, 12, 675.	3.5	2
6	Cu(ⁱⁱⁱ)-bis-thiolato complex forms an unusual mono-thiolato Cu(ⁱⁱⁱ)-peroxido adduct. <i>Chemical Communications</i> , 2021, 57, 69-72.	4.1	5
7	Vibrational Motions Make Significant Contributions to Sequential Methyl C-H Activations in an Organometallic Complex. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 658-662.	4.6	7
8	From Small Molecules to Complex Systems: A Survey of Chemical and Biological Applications of the Mössbauer Effect. <i>Topics in Applied Physics</i> , 2021, , 173-219.	0.8	2
9	High-Repetition Rate Optical Pump-Nuclear Resonance Probe Experiments Identify Transient Molecular Vibrations after Photoexcitation of a Spin Crossover Material. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3240-3245.	4.6	2
10	New Spin-Crossover Compounds Containing the [Ni(mnt)] Anion (mnt = Maleonitriledithiolate). <i>Magnetochemistry</i> , 2021, 7, 72.	2.4	6
11	Quinone Reduction by Organo-Osmium Half-Sandwich Transfer Hydrogenation Catalysts. <i>Organometallics</i> , 2021, 40, 3012-3023.	2.3	8
12	Electron inventory of the iron-sulfur scaffold complex HypCD essential in [NiFe]-hydrogenase cofactor assembly. <i>Biochemical Journal</i> , 2021, 478, 3281-3295.	3.7	6
13	Vibrational properties of 1D- and 3D polynuclear spin crossover Fe(II) urea-triazoles polymer chains and quantification of intrachain cooperativity. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 034004.	1.8	4
14	Light-induced spin transition in the spin-crossover complex FePt ₂ detected by optical pump-coherent resonant nuclear elastic scattering. <i>Hyperfine Interactions</i> , 2020, 241, 1.	0.5	1
15	Spatiotemporal Studies of the One-Dimensional Coordination Polymer [Fe(ebtz) ₂ (C ₂ H ₅ CN) ₂](BF ₄) ₂ : Tug of War between the Nitrile Reorientation Versus Crystal Lattice as a Tool for Tuning the Spin Crossover Properties**. <i>Chemistry - A European Journal</i> , 2020, 26, 14419-14434.	3.3	6
16	Frontispiz: Untersuchung von Schwingungen in Bezug auf Spin-Phonon-Kopplung in Einzelmolekülmagneten mittels nuklearer inelastischer Streuung am ¹⁶¹ Dy-Kern. <i>Angewandte Chemie</i> , 2020, 132, .	2.0	0
17	The unusual structure of Ruminococcin C1 antimicrobial peptide confers clinical properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19168-19177.	7.1	25
18	Frontispiece: Exploring the Vibrational Side of Spin-Phonon Coupling in Single-Molecule Magnets via ¹⁶¹ Dy Nuclear Resonance Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	13.8	0

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19	Exploring the Vibrational Side of Spin-Phonon Coupling in Single-Molecule Magnets via ¹⁶¹ Dy Nuclear Resonance Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8818-8822.	13.8	12
20	Untersuchung von Schwingungen in Bezug auf Spin-Phonon-Kopplung in Einzelmolekülmagneten mittels nuklearer inelastischer Streuung am ¹⁶¹ Dy-Kern. <i>Angewandte Chemie</i> , 2020, 132, 8902-8907.	2.0	4
21	Active Sites of the Selective Catalytic Reduction of NO by NH ₃ over Fe-ZSM-5: Combining Reaction Kinetics with Postcatalytic Mössbauer Spectroscopy at Cryogenic Temperatures. <i>ACS Catalysis</i> , 2020, 10, 3119-3130.	11.2	19
22	Exploration of iron ligand modes in dimeric iron (II) complexes by nuclear resonance scattering. <i>Hyperfine Interactions</i> , 2020, 241, 1.	0.5	2
23	Atomistic simulations of spin-switch dynamics in multinuclear chain-like triazole spin-crossover molecules. <i>Chemical Physics Letters</i> , 2019, 733, 136666.	2.6	6
24	Vibrational properties and cooperativity of the 3D spin crossover network [Fe(pyrazine)][Pt(CN) ₄]. <i>Dalton Transactions</i> , 2019, 48, 15625-15634.	3.3	9
25	Supramolecular Iron Metallocubanes Exhibiting Site-Selective Thermal and Light-Induced Spin-Crossover. <i>Journal of the American Chemical Society</i> , 2019, 141, 18759-18770.	13.7	30
26	Elucidating the Structural Composition of an Fe-N-C Catalyst by Nuclear- and Electron-Resonance Techniques. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10486-10492.	13.8	90
27	Elucidating the Structural Composition of an Fe-N-C Catalyst by Nuclear- and Electron-Resonance Techniques. <i>Angewandte Chemie</i> , 2019, 131, 10596-10602.	2.0	13
28	Low potential enzymatic hydride transfer via highly cooperative and inversely functionalized flavin cofactors. <i>Nature Communications</i> , 2019, 10, 2074.	12.8	14
29	Synthesis and properties of a heterobimetallic iron-manganese complex and its comparison with homobimetallic analogues. <i>Inorganica Chimica Acta</i> , 2019, 490, 254-260.	2.4	5
30	Titelbild: ¹⁶¹ Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions (<i>Angew. Chem.</i> 11/2019). <i>Angewandte Chemie</i> , 2019, 131, 3690-3690.	2.0	0
31	Apd1 and Aim32 Are Prototypes of Bishistidinyl-Coordinated Non-Rieske [2Fe-2S] Proteins. <i>Journal of the American Chemical Society</i> , 2019, 141, 5753-5765.	13.7	21
32	¹⁶¹ Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions. <i>Angewandte Chemie</i> , 2019, 131, 3482-3487.	2.0	4
33	The ABCB7-Like Transporter PexA in <i>Rhodobacter capsulatus</i> Is Involved in the Translocation of Reactive Sulfur Species. <i>Frontiers in Microbiology</i> , 2019, 10, 406.	3.5	4
34	Generation of maghemite nanocrystals from iron-sulfur centres. <i>Dalton Transactions</i> , 2019, 48, 9564-9569.	3.3	1
35	Preparation and characterization of spin crossover thin solid films. <i>Hyperfine Interactions</i> , 2019, 240, 1.	0.5	1
36	Influence of ligand substitution on magnetic hyperfine interaction in Dy ₆ -based single-molecule magnets/toroics. <i>Hyperfine Interactions</i> , 2019, 240, 1.	0.5	1

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37	Characterization of Mycobacterium tuberculosis ferredoxin with Mössbauer spectroscopy. Hyperfine Interactions, 2019, 240, 1.	0.5	1
38	Effect of Oxidation and Protonation States on [2Fe ^{II} S] Cluster Nitrosylation Giving {Fe(NO) ₂ } ⁹⁺ Dinitrosyl Iron Complexes (DNICs). Inorganic Chemistry, 2019, 58, 769-784.	4.0	20
39	¹⁶¹ Dy Time-Resolved Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions. Angewandte Chemie - International Edition, 2019, 58, 3444-3449.	13.8	18
40	Synthesis of an Iron(IV) Aqua-Oxido Complex Using Ozone as an Oxidant. Angewandte Chemie - International Edition, 2018, 57, 5355-5358.	13.8	17
41	New activation mechanism for half-sandwich organometallic anticancer complexes. Chemical Science, 2018, 9, 3177-3185.	7.4	34
42	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
43	Synthesis of an Iron(IV) Aqua-Oxido Complex Using Ozone as an Oxidant. Angewandte Chemie, 2018, 130, 5453-5456.	2.0	10
44	Spin State Crossover, Vibrational, Computational, and Structural Studies of Fe ^{II} 1-Propyl-1H-tetrazole Derivatives. European Journal of Inorganic Chemistry, 2018, 2018, 394-413.	2.0	7
45	Spectroscopic techniques to characterize the spin state: Vibrational, optical, Mössbauer, NMR, and X-ray spectroscopy. Comptes Rendus Chimie, 2018, 21, 1152-1169.	0.5	20
46	Fe ^{II} Complexes with Triple N1,N2-Triazole Bridge Schiff Base Ligand: Antiferromagnetic Dimer vs. Spin Conversion Trimer. European Journal of Inorganic Chemistry, 2018, 2018, 4190-4199.	2.0	10
47	Abrupt Spin Crossover Behavior in a Linear N1,N2-Triazole Bridged Trinuclear Fe(II) Complex. Magnetochemistry, 2018, 4, 34.	2.4	6
48	A luminescent Pt ₂ Fe spin crossover complex. Dalton Transactions, 2017, 46, 2289-2302.	3.3	49
49	Iron uptake and storage in the HAB dinoflagellate Lingulodinium polyedrum. BioMetals, 2017, 30, 945-953.	4.1	4
50	Mössbauer Spectroscopic Characterization of Iron(III)-Polysaccharide Coordination Complexes: Photochemistry, Biological, and Photoresponsive Materials Implications. Inorganic Chemistry, 2017, 56, 11524-11531.	4.0	12
51	Nuclear inelastic scattering and density functional theory studies of a one-dimensional spin crossover [Fe(1,2,4-triazole) ₂ (1,2,4-triazolato)](BF ₄) molecular chain. Physical Chemistry Chemical Physics, 2017, 19, 18880-18889.	2.8	10
52	Multivariate Curve Resolution and Carbon Balance Constraint to Unravel FTIR Spectra from Fed-Batch Fermentation Samples. Bioengineering, 2017, 4, 9.	3.5	3
53	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
54	Correction: Surface binding, localization and storage of iron in the giant kelp Macrocystis pyrifera. Metallomics, 2016, 8, 551-551.	2.4	2

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55	Surface binding, localization and storage of iron in the giant kelp <i>Macrocystis pyrifera</i> . <i>Metallomics</i> , 2016, 8, 403-411.	2.4	9
56	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. <i>Inorganic Chemistry</i> , 2016, 55, 9869-9885.	4.0	15
57	Divergent Coordination Chemistry: Parallel Synthesis of [2 ⁺ -2] Iron(II) Grid-Complex Tauto-Conformers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10881-10885.	13.8	41
58	Site-selective detection of vibrational modes of an iron atom in a trinuclear complex. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.5	0
59	Unusual metal-ligand charge transfer in ferrocene functionalized ⁵⁷ Fe iron carboxylates observed with Mössbauer spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 407, 87-91.	2.3	5
60	Isoprenoid Biosynthesis in Pathogenic Bacteria: Nuclear Resonance Vibrational Spectroscopy Provides Insight into the Unusual [4Fe ⁴ S] Cluster of the <i>E. coli</i> LytB/IspH Protein. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12584-12587.	13.8	12
61	Two-Step Spin Transition in a 1D Fe ^{II} 1,2,4-Triazole Chain Compound. <i>Chemistry - A European Journal</i> , 2015, 21, 5843-5855.	3.3	28
62	A New Iron-Based Carbon Monoxide Oxidation Catalyst: Structure-Activity Correlation. <i>ChemPhysChem</i> , 2014, 15, 3768-3775.	2.1	16
63	A new sample environment for cryogenic nuclear resonance scattering experiments on single crystals and microsamples at P01, PETRA III. <i>Hyperfine Interactions</i> , 2014, 226, 673-678.	0.5	0
64	Characterization of the photolyase-like iron sulfur protein PhrB from <i>Agrobacterium tumefaciens</i> by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2014, 226, 445-449.	0.5	7
65	Nuclear inelastic scattering studies on a dinuclear iron(II) spin crossover complex. <i>Hyperfine Interactions</i> , 2014, 226, 211-216.	0.5	2
66	Enhancement of Spin Relaxation in an Fe ₂ Fe Coordination Cluster by Magnetic Fields. <i>Chemistry - A European Journal</i> , 2014, 20, 12381-12384.	3.3	8
67	Identifying active sites for fast NH ₃ -SCR of NO/NO ₂ mixtures over Fe-ZSM-5 by operando EPR and UV-vis spectroscopy. <i>Journal of Catalysis</i> , 2014, 316, 103-111.	6.2	104
68	Nanoscale Fe ₂ O ₃ -Based Catalysts for Selective Hydrogenation of Nitroarenes to Anilines. <i>Science</i> , 2013, 342, 1073-1076.	12.6	868
69	Quantification of intramolecular cooperativity in polynuclear spin crossover Fe(ii) complexes by density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15450.	2.8	22
70	Progress in Electronic Structure Calculations on Spin-Crossover Complexes. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 628-641.	2.0	92
71	Facile Synthesis of Monodisperse Maghemite and Ferrite Nanocrystals from Metal Powder and Octanoic Acid. <i>Chemistry of Materials</i> , 2013, 25, 1430-1435.	6.7	19
72	Ligand strain and conformations in a family of Fe(ii) spin crossover hexadentate complexes involving the 2-pyridylmethyl-amino moiety: DFT modelling. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7411.	2.8	18

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73	Spin relaxation in antiferromagnetic Fe ²⁺ -Fe dimers slowed down by anisotropic Dy ^{III} ions. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 807-814.	2.8	18
74	Vibrational properties of the polymeric spin crossover (SCO) Fe(II) complexes [Fe(4-amino-1,2,4-triazole) ₃] ₂ n: a nuclear inelastic scattering (NIS), Raman and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14650.	2.8	23
75	Vibrational Spectroscopy of Mono- and Polynuclear Spin-Crossover Systems. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2635-2648.	2.0	50
76	Nuclear inelastic scattering of 1D polymeric Fe(II) complexes of 1,2,4-aminotriazole in their high-spin and low-spin state. <i>Hyperfine Interactions</i> , 2012, 204, 129-132.	0.5	12
77	Nuclear inelastic scattering of heme proteins: from iron ligand vibrations to low energy protein modes. <i>Hyperfine Interactions</i> , 2012, 206, 19-22.	0.5	3
78	Mössbauer spectroscopy of protein-passivated iron oxide nanoparticles. <i>Hyperfine Interactions</i> , 2012, 205, 121-124.	0.5	8
79	Installation of an IR microscope at the nuclear resonance beamline ID18 of ESRF. <i>Hyperfine Interactions</i> , 2012, 206, 63-66.	0.5	2
80	Ferric ion (hydr)oxo clusters in the Venus flytrap cleft of FbpA: Mössbauer, calorimetric and mass spectrometric studies. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 573-588.	2.6	3
81	Spectroscopic characterization of cytochrome P450 Compound I. <i>Archives of Biochemistry and Biophysics</i> , 2011, 507, 44-55.	3.0	30
82	A comparative study of the physicochemical properties of iron isomaltoside 1000 (Monofer [®]), a new intravenous iron preparation and its clinical implications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 78, 480-491.	4.3	220
83	Electronic Effects in the Catalytic Hydrosilylation with In Situ Generated Iron(II) Catalysts. <i>ChemCatChem</i> , 2011, 3, 887-892.	3.7	22
84	Interpretation of Nuclear Resonant Vibrational Spectra of Rubredoxin Using a Combined Quantum Mechanics and Molecular Mechanics Approach. <i>ChemPhysChem</i> , 2011, 12, 3434-3441.	2.1	2
85	Biosynthesis of Isoprene Units: Mössbauer Spectroscopy of Substrate and Inhibitor Binding to the [4Fe ²⁺ 4S] Cluster of the LytB/IspH Enzyme. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11976-11979.	13.8	34
86	Magnetically Separable Nanocatalysts: Bridges between Homogeneous and Heterogeneous Catalysis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3428-3459.	13.8	1,325
87	Vibrational properties of the trinuclear spin crossover complex [Fe ₃ (4-(2-hydroxy-ethyl)-1,2,4-triazole) ₆ (H ₂ O) ₆](CF ₃ SO ₃) ₆ : a nuclear inelastic scattering, IR, Raman and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14782.	2.8	27
88	Density functional theory calculations and vibrational spectroscopy on iron spin-crossover compounds. <i>Coordination Chemistry Reviews</i> , 2009, 253, 2423-2431.	18.8	52
89	Relevance of supramolecular interactions, texture and lattice occupancy in the designer iron(II) spin crossover complexes. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1365-1376.	2.9	15
90	Fe(II) complex with the octadentate btpa ligand: a DFT study on a spin-crossover system that reveals two distinct high-spin states. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7562.	2.8	11

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91	Reactive complexes in myoglobin and nitric oxide synthase. <i>Inorganica Chimica Acta</i> , 2008, 361, 831-843.	2.4	8
92	Endogenous tetrahydroisoquinolines associated with Parkinson's disease mimic the feedback inhibition of tyrosine hydroxylase by catecholamines. <i>FEBS Journal</i> , 2008, 275, 2109-2121.	4.7	12
93	Sub-picosecond time resolved infrared spectroscopy of high-spin state formation in Fe(ii) spin crossover complexes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4264.	2.8	70
94	Crystallographic and Spectroscopic Studies of Peroxide-derived Myoglobin Compound II and Occurrence of Protonated FeIV=O. <i>Journal of Biological Chemistry</i> , 2007, 282, 23372-23386.	3.4	53
95	Structural Organization of Essential Iron-Sulfur Clusters in the Evolutionarily Highly Conserved ATP-binding Cassette Protein ABCE1. <i>Journal of Biological Chemistry</i> , 2007, 282, 14598-14607.	3.4	99
96	Estimate of the vibrational contribution to the entropy change associated with the spin transition in the d4 systems [MnIII(pyrol)3tren] and [CrII(depe)2I2]. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1194-1201.	2.8	21
97	Vibrational spectrum of the spin crossover complex [Fe(phen)2(NCS)2] studied by IR and Raman spectroscopy, nuclear inelastic scattering and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4685-4693.	2.8	93
98	Models of the Membrane-Bound Cytochromes: Mössbauer Spectra of Crystalline Low-Spin Ferriheme Complexes Having Axial Ligand Plane Dihedral Angles Ranging from 0° to 90°. <i>Journal of the American Chemical Society</i> , 2006, 128, 1379-1389.	13.7	28
99	Low-Temperature EPR and Mössbauer Spectroscopy of Two Cytochromes with His-Met Axial Coordination Exhibiting HALS Signals. <i>ChemPhysChem</i> , 2006, 7, 1258-1267.	2.1	17
100	Mössbauer studies of coordination compounds using synchrotron radiation. <i>Coordination Chemistry Reviews</i> , 2005, 249, 255-272.	18.8	40
101	Trinuclear Oxo-Centered Iron and Iron/Nickel Clusters - Ligand-Controlled Homo/Hetero Valency. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1383-1387.	2.0	9
102	Homo-/Heterotrinnuclear Mixed-Valent Oxo-Centered Iron/Nickel Clusters - Mössbauer Studies on Internal Electron-Exchange Processes. <i>Chemistry - A European Journal</i> , 2005, 11, 5843-5848.	3.3	10
103	Isoprenoid biosynthesis in chloroplasts via the methylerythritol phosphate pathway: the (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (GcpE) from <i>Arabidopsis thaliana</i> is a [4Fe-4S] protein. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 131-137.	2.6	73
104	Spectroscopic characterization of the iron-oxo intermediate in cytochrome P450. <i>Biological Chemistry</i> , 2005, 386, 1043-53.	2.5	31
105	Radical S-Adenosylmethionine Enzyme Coproporphyrinogen III Oxidase HemN. <i>Journal of Biological Chemistry</i> , 2005, 280, 29038-29046.	3.4	81
106	Freeze-quenched iron-oxo intermediates in cytochromes P450. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 355-364.	2.1	34
107	Tyrosine Radical Formation in the Reaction of Wild Type and Mutant Cytochrome P450cam with Peroxy Acids. <i>Journal of Biological Chemistry</i> , 2004, 279, 10919-10930.	3.4	90
108	Models of the bis-histidine-coordinated ferricytochromes: Mössbauer and EPR spectroscopic studies of low-spin iron(III) tetrapyrroles of various electronic ground states and axial ligand orientations. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 787-801.	2.6	23

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109	Iron-binding characteristics of neuromelanin of the human substantia nigra. <i>Biochemical Pharmacology</i> , 2003, 66, 489-494.	4.4	189
110	Catalysts for the Oxygen Reduction from Heat-Treated Iron(III) Tetramethoxyphenylporphyrin Chloride: A Structure and Stability of Active Sites. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9034-9041.	2.6	327
111	The Presence of an Iron-Sulfur Cluster in Adenosine 5'-Phosphosulfate Reductase Separates Organisms Utilizing Adenosine 5'-Phosphosulfate and Phosphoadenosine 5'-Phosphosulfate for Sulfate Assimilation. <i>Journal of Biological Chemistry</i> , 2002, 277, 21786-21791.	3.4	96
112	Metastable Isonitrosyl Structure of the Nitroprusside Anion Confirmed by Nuclear Inelastic Scattering. <i>Journal of the American Chemical Society</i> , 2002, 124, 3007-3011.	13.7	37
113	Is the Corrolate Macrocycle Innocent or Noninnocent? Magnetic Susceptibility, Mössbauer, ¹ H NMR, and DFT Investigations of Chloro- and Phenyliron Corrolates. <i>Journal of the American Chemical Society</i> , 2002, 124, 6636-6648.	13.7	123
114	Self-Assembly of Tetrahedral and Trigonal Antiprismatic Clusters [Fe ₄ (L ₄) ₄] and [Fe ₆ (L ₅) ₆] on the Basis of Trigonal Tris-Bidentate Chelators. <i>Chemistry - A European Journal</i> , 2002, 8, 493-497.	3.3	105
115	Sulfide Oxidation by Hydrogen Peroxide Catalyzed by Iron Complexes: Two Metal Centers Are Better Than One. <i>Chemistry - A European Journal</i> , 2002, 8, 1196.	3.3	89
116	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.. <i>Chemistry - A European Journal</i> , 2002, 8, 3614.	3.3	35
117	A Diferric Peroxo Complex with an Unprecedented Spin Configuration: anS=2 System Arising from anS=5/2, 1/2 Pair. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 617-620.	13.8	24
118	Spectroscopic Studies on Iron Complexes of Different Anthracyclines in Aprotic Solvent Systems. <i>Inorganic Chemistry</i> , 2001, 40, 5324-5333.	4.0	17
119	Iron, neuromelanin and ferritin content in the substantia nigra of normal subjects at different ages: consequences for iron storage and neurodegenerative processes. <i>Journal of Neurochemistry</i> , 2001, 76, 1766-1773.	3.9	350
120	Plant Adenosine 5'-Phosphosulfate Reductase Is a Novel Iron-Sulfur Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 42881-42886.	3.4	77
121	Mössbauer spectroscopic studies of the six-coordinate heme nitric oxide complex of iron(III) octaethylporphyrin <i>in situ</i> methylimidazole, the first model of the nitrophorin complexes. <i>Israel Journal of Chemistry</i> , 2000, 40, 9-14.	2.3	17
122	Structure and dynamics of biomolecules studied by Mössbauer spectroscopy. <i>Reports on Progress in Physics</i> , 2000, 63, 263-353.	20.1	136
123	Structural, Magnetic, and Dynamic Characterization of the (dxz,dyz) ⁴ (dxy) ¹ Ground-State Low-Spin Iron(III) Tetraphenylporphyrinate Complex [(p-TTP)Fe(2,6-XylylNC) ₂]CF ₃ SO ₃ . <i>Journal of the American Chemical Society</i> , 2000, 122, 4366-4377.	13.7	92
124	Transport and utilization of rhizoferrin bound iron in <i>Mycobacterium smegmatis</i> . <i>BioMetals</i> , 1999, 12, 315-321.	4.1	7
125	Iron coordination geometry in full-length, truncated, and dehydrated forms of human tyrosine hydroxylase studied by Mössbauer and X-ray absorption spectroscopy. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 223-231.	2.6	18
126	ESEEM and Mössbauer studies of the ferriheme model compound bis(3-aminopyrazole)tetraphenylporphyrinatoiron(III) chloride, [TPPFe(NH ₂ PzH) ₂]Cl. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 708-716.	2.6	14

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127	Electronic Structure of Linear Thiophenolate-Bridged Heterotrinnuclear Complexes [LFeMFeL] _n +(M =) Tj ETQq1 1 0.784314 rgBT /Over 2193-2208.	13.7	84
128	Characterization of Iron(III) Tetramesitylporphyrin and Microperoxidase-8 Incorporated into the Molecular Sieve MCM-41. <i>Inorganic Chemistry</i> , 1999, 38, 4901-4905.	4.0	29
129	Evidence for an Unusual Thermally Induced Low-Spin (S=1/2) \rightarrow 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 Containing N,N-Dimethyl-2,11-diaza[3.3](2,6)pyridinophane as Ligand. <i>Chemistry - A European Journal</i> , 1998, 4, 686-691.	3.3	44
130	Structural, Spectroscopic, and Chemical Properties of the First Low-Spin Iron(III) Semiquinonate Complexes in the Solid State and in Solution. <i>Chemistry - A European Journal</i> , 1998, 4, 1255-1265.	3.3	70
131	FhuF, an iron-regulated protein of <i>Escherichia coli</i> with a new type of [2Fe-2S] center. <i>FEBS Journal</i> , 1998, 258, 1001-1008.	0.2	55
132	Iron uptake and intracellular metal transfer in mycobacteria mediated by xenosiderophores. <i>BioMetals</i> , 1997, 10, 193-203.	4.1	30
133	Topologic Equivalents of Coronands, Cryptands and Their Inclusion Complexes: Synthesis, Structure and Properties of {2} \rightarrow Metallacryptands and {2} \rightarrow Metallacryptates. <i>Chemistry - A European Journal</i> , 1997, 3, 2058-2062.	3.3	94
134	Mossbauer, Electron-Paramagnetic-Resonance and X-ray-Absorption Fine-Structure Studies of the Iron Environment in Recombinant Human Tyrosine Hydroxylase. <i>FEBS Journal</i> , 1996, 241, 432-439.	0.2	41
135	Molecular Structure of the Chloroiron(III) Derivative of the <i>meso</i> -Unsubstituted 2,7,12,17-Tetramethyl- β ,8,13,18-tetramesitylporphyrin and Weak Ferromagnetic Exchange Interactions in the A _{1u} Oxoiron(IV) Porphyrin $\dot{\text{C}}$ Radical Cation Complex. <i>Chemistry - A European Journal</i> , 1996, 2, 1159-1163.	3.3	27
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138	A Neutral, Triple-Helical, Trinuclear, Oxo-Centered Mixed-Valence Iron Complex. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 2206-2208.	4.4	41