Alexander Schnegg

List of Publications by Year
in descending order

61	1,985	218677	265206
papers	citations	26 h-index	42 g-index

67	67	67	2372
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduced formation of peroxide and radical species stabilises iron-based hybrid catalysts in polymer electrolyte membrane fuel cells. Journal of Energy Chemistry, 2022, 65, 433-438.	12.9	18
2	A Combined Spectroscopic and Computational Study on the Mechanism of Iron-Catalyzed Aminofunctionalization of Olefins Using Hydroxylamine Derived Nâ€“O Reagent as the â€œAminoâ€•Source and â€œOxidantâ€• Journal of the American Chemical Society, 2022, 144, 2637-2656.	13.7	29
3	Milliwatt three- and four-pulse double electron electron resonance for protein structure determination. Physical Chemistry Chemical Physics, 2022, 24, 12528-12540.	2.8	2
4	Antisymmetric Spin Exchange in a Î¼-1,2-Peroxodicopper(II) Complex with an Orthogonal Cuâ€“Oâ€“Oâ€“Cu Arrangement and S = 1 Spin Ground State Characterized by THz-EPR. Jacs Au, 2022, 2, 1134-1143.	7.9	3
5	Easy-plane to easy-axis anisotropy switching in a Co(<scp>ii</scp>) single-ion magnet triggered by the diamagnetic lattice. Journal of Materials Chemistry C, 2021, 9, 9446-9452.	5.5	8
6	Active Site Identification in FeNC Catalysts and Their Assignment to the Oxygen Reduction Reaction Pathway by In Situ⁵⁷Fe MÃ¶ssbauer Spectroscopy. Advanced Energy and Sustainability Research, 2021, 2, 2000064.	5.8	40
7	Spectroscopic Investigation of a Metalâ€“Metal-Bonded Fe₆ Single-Molecule Magnet with an Isolated S = ¹⁹/₂ Giant-Spin Ground State. Inorganic Chemistry, 2021, 60, 4610-4622.	4.0	13
8	Experimental and Theoretical Evidence for an Unusual Almost Triply Degenerate Electronic Ground State of Ferrous Tetraphenylporphyrin. Inorganic Chemistry, 2021, 60, 4966-4985.	4.0	14
9	Highly Efficient and Selective Aerobic Oxidation of Cinnamyl Alcohol under Visible Light over Pt-Loaded NaNbO₃ Enriched with Oxygen Vacancies by Ni Doping. ACS Sustainable Chemistry and Engineering, 2021, 9, 5422-5429.	6.7	14
10	In situ electron paramagnetic resonance spectroscopy for catalysis. Nature Reviews Methods Primers, 2021, 1, .	21.2	51
11	Applying Unconventional Spectroscopies to the Singleâ€Molecule Magnets, Co(PPh₃)₂X₂(X=Cl, Br, I): Unveiling Magnetic Transitions and Spinâ€Phonon Coupling. Chemistry - A European Journal, 2021, 27, 11110-11125.	3.3	21
12	Rapid-scan electron paramagnetic resonance using an EPR-on-a-Chip sensor. Magnetic Resonance, 2021, 2, 673-687.	1.9	6
13	Observability of Paramagnetic NMR Signals at over 10â€‰000 ppm Chemical Shifts. Angewandte Chemie - International Edition, 2021, 60, 22856-22864.	13.8	17
14	Liquidâ€Phase Cyclohexene Oxidation with O₂ over Sprayâ€Flameâ€Synthesized La_{1â^'x}Sr_xCoO₃ Perovskite Nanoparticles. Chemistry - A European Journal, 2021, 27, 16912-16923.	3.3	10
15	Observability of paramagnetic NMR signals at over 10â€‰000 ppm chemical shifts. Angewandte Chemie, 2021, 133, 23038.	2.0	1
16	Immobilization of â€œCapping Areneâ€•Cobalt(II) Complexes on Ordered Mesoporous Carbon for Electrocatalytic Water Oxidation. ACS Catalysis, 2021, 11, 15068-15082.	11.2	8
17	Singleâ€Chain Magnet Based on Cobalt(II) Thiocyanate as XXZ Spin Chain. Chemistry - A European Journal, 2020, 26, 2837-2851.	3.3	54
18	Advanced Paramagnetic Resonance Studies on Manganese and Iron Corroles with a Formal d⁴ Electron Count. Inorganic Chemistry, 2020, 59, 1075-1090.	4.0	24

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19	Photoredox catalysis with aryl sulfonium salts enables site-selective late-stage fluorination. Nature Chemistry, 2020, 12, 56-62.	13.6	194
20	A Synergy and Struggle of EPR, Magnetometry and NMR: A Case Study of Magnetic Interaction Parameters in a Six-Coordinate Cobalt(II) Complex. Inorganic Chemistry, 2020, 59, 10746-10755.	4.0	16
21	A Manganese(IV)-Hydroperoxo Intermediate Generated by Protonation of the Corresponding Manganese(III)-Superoxo Complex. Journal of the American Chemical Society, 2020, 142, 10255-10260.	13.7	22
22	Influence of the Coligand onto the Magnetic Anisotropy and the Magnetic Behavior of One-Dimensional Coordination Polymers. Inorganic Chemistry, 2020, 59, 8971-8982.	4.0	24
23	Singleâ€Ion Magnetic Behaviour in an Iron(III) Porphyrin Complex: A Dichotomy Between High Spin and 5/2â€“3/2 Spin Admixture. Chemistry - A European Journal, 2020, 26, 14242-14251.	3.3	9
24	Variation of the Chain Geometry in Isomeric 1D Co(NCS)₂ Coordination Polymers and Their Influence on the Magnetic Properties. Inorganic Chemistry, 2020, 59, 5325-5338.	4.0	38
25	Radical Câ^'N Borylation of Aromatic Amines Enabled by a Pyrylium Reagent. Chemistry - A European Journal, 2020, 26, 3738-3743.	3.3	32
26	Examination of the Magneto-Structural Effects of Hangman Groups on Ferric Porphyrins by EPR. Inorganic Chemistry, 2019, 58, 14228-14237.	4.0	3
27	In Situ EPR Characterization of a Cobalt Oxide Water Oxidation Catalyst at Neutral pH. Catalysts, 2019, 9, 926.	3.5	27
28	Extending electron paramagnetic resonance to nanoliter volume protein single crystals using a self-resonant microhelix. Science Advances, 2019, 5, eaay1394.	10.3	21
29	A Two-Coordinate Iron(II) Imido Complex with NHC Ligation: Synthesis, Characterization, and Its Diversified Reactivity of Nitrene Transfer and Câ€“H Bond Activation. Inorganic Chemistry, 2019, 58, 7634-7644.	4.0	39
30	Anaerobic Alcohol Conversion to Carbonyl Compounds over Nanoscaled Rh-Doped SrTiO₃ under Visible Light. Journal of Physical Chemistry Letters, 2019, 10, 2075-2080.	4.6	30
31	Determination of Large Zero-Field Splitting in High-Spin Co(I) Clathrochelates. Inorganic Chemistry, 2018, 57, 15330-15340.	4.0	12
32	Magnetic Properties of Reduced and Reoxidized Mnâ€“Na₂WO₄/SiO₂: A Catalyst for Oxidative Coupling of Methane (OCM). Journal of Physical Chemistry C, 2018, 122, 22605-22614.	3.1	24
33	Magneto-Structural Correlations in Pseudotetrahedral Forms of the [Co(SPh)₄]^{2â€“} Complex Probed by Magnetometry, MCD Spectroscopy, Advanced EPR Techniques, and ab Initio Electronic Structure Calculations. Inorganic Chemistry, 2017, 56, 3102-3118.	4.0	74
34	Recent progress in synchrotron-based frequency-domain Fourier-transform THz-EPR. Journal of Magnetic Resonance, 2017, 280, 10-19.	2.1	44
35	Analysis of Magnetic Anisotropy and the Role of Magnetic Dilution in Triggering Singleâ€Molecule Magnet (SMM) Behavior in a Family of Co^{II}Y^{III} Dinuclear Complexes with Easyâ€Plane Anisotropy. Chemistry - A European Journal, 2017, 23, 11649-11661.	3.3	51
36	Thermosensitive Cu₂Oâ€“PNIPAM coreâ€“shell nanoreactors with tunable photocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 9677-9684.	10.3	46

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37	Probing the Fate of Mn Complexes in Nafion: A Combined Multifrequency EPR and XAS Study. Journal of Physical Chemistry C, 2016, 120, 853-861.	3.1	4
38	Structure and Mechanism Leading to Formation of the Cysteine Sulfinate Product Complex of a Biomimetic Cysteine Dioxygenase Model. Chemistry - A European Journal, 2015, 21, 7470-7479.	3.3	20
39	General Magnetic Transition Dipole Moments for Electron Paramagnetic Resonance. Physical Review Letters, 2015, 114, 010801.	7.8	27
40	Simulating Frequency-Domain Electron Paramagnetic Resonance: Bridging the Gap between Experiment and Magnetic Parameters for High-Spin Transition-Metal Ion Complexes. Journal of Physical Chemistry B, 2015, 119, 13816-13824.	2.6	47
41	Cyanide Single-Molecule Magnets Exhibiting Solvent Dependent Reversible â€œOnâ€•and â€œOffâ€•Exchange Bias Behavior. Journal of the American Chemical Society, 2015, 137, 14406-14422.	13.7	121
42	Solutionâ€Processed Crystalline Silicon Thinâ€Film Solar Cells. Advanced Materials Interfaces, 2014, 1, 1300046.	3.7	17
43	Electronic structure of positive and negative polarons in functionalized dithienylthiazolo[5,4-d]thiazoles: a combined EPR and DFT study. Physical Chemistry Chemical Physics, 2014, 16, 10032.	2.8	15
44	X-band rapid-scan EPR of samples with long electron spin relaxation times: a comparison of continuous wave, pulse and rapid-scan EPR. Molecular Physics, 2013, 111, 2664-2673.	1.7	47
45	Persistent spin coherence and bipolarons. Nature Nanotechnology, 2013, 8, 884-885.	31.5	5
46	Selective electron spin resonance measurements of micrometer-scale thin samples on a substrate. Measurement Science and Technology, 2013, 24, 115009.	2.6	2
47	Low-Spin Hexacoordinate Mn(III): Synthesis and Spectroscopic Investigation of Homoleptic Tris(pyrazolyl)borate and Tris(carbene)borate Complexes. Inorganic Chemistry, 2013, 52, 144-159.	4.0	55
48	Zero-field splittings in metHb and metMb with aquo and fluoro ligands: a FD-FT THz-EPR study. Molecular Physics, 2013, 111, 2696-2707.	1.7	36
49	Threeâ€Axis Anisotropic Exchange Coupling in the Singleâ€Molecule Magnets NEt₄[Mn^{III}₂(5â€Brsalen)₂(MeOH)₂M^{III}(CN)₆ (M=Ru, Os). Chemistry - A European Journal, 2013, 19, 3693-3701.	6.2	68
50	Water Oxidation Catalysis by Nanoparticulate Manganese Oxide Thin Films: Probing the Effect of the Manganese Precursors. Chemistry of Materials, 2013, 25, 1098-1108.	6.7	110
51	Correlation between structural and opto-electronic characteristics of crystalline Si microhole arrays for photonic light management. Journal of Applied Physics, 2013, 114, 173513.	2.5	1
52	Pulsed electrically detected magnetic resonance for thin film silicon and organic solar cells. Physical Chemistry Chemical Physics, 2012, 14, 14418.	2.8	31
53	A linear single-molecule magnet based on [RuIII(CN)6]3â^'. Chemical Communications, 2011, 47, 6918.	4.1	50
54	Frequencyâ€Domain Fourierâ€Transform Terahertz Spectroscopy of the Singleâ€Molecule Magnet (NEt₄)[Mn₂(5â€Brsalen)₂(MeOH)₂Cr(CN)₆]. Chemistry - A European Journal, 2011, 17, 7492-7498.	3.3	50

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55	Multifrequency EPR study of the mobility of nitroxides in solid-state calixarene nanocapsules. Physical Chemistry Chemical Physics, 2009, 11, 6700.	2.8	23
56	Frequency domain Fourier transform THz-EPR on single molecule magnets using coherent synchrotron radiation. Physical Chemistry Chemical Physics, 2009, 11, 6820.	2.8	53
57	Inclusion of 4-methoxy-2,2,6,6-tetramethylpiperidine-N-oxyl in a calixarene nanocapsule in the solid state. Physical Chemistry Chemical Physics, 2008, 10, 5299.	2.8	19
58	G-Tensors of the Flavin Adenine Dinucleotide Radicals in Glucose Oxidase:â€‰ A Comparative Multifrequency Electron Paramagnetic Resonance and Electronâ€'Nuclear Double Resonance Study. Journal of Physical Chemistry B, 2008, 112, 3568-3574.	2.6	35
59	The primary donor cation P+ in photosynthetic reaction centers of site-directed mutants of Rhodobacter sphaeroides: g-tensor shifts revealed by high-field EPR at 360 GHz/12.8 T. Chemical Physics, 2003, 294, 371-384.	1.9	23
60	g-Tensor of the Neutral Flavin Radical Cofactor of DNA Photolyase Revealed by 360-GHz Electron Paramagnetic Resonance Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 8885-8890.	2.6	53
61	THz Electron Paramagnetic Resonance / THz Spectroscopy at BESSY II. Journal of Large-scale Research Facilities JLSRF, 0, 2, A51.	0.0	23