

Sabine Van Doorslaer

List of Publications by Year in descending order

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190
papers

4,152
citations

117625

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197818

49
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199
all docs

199
docs citations

199
times ranked

4631
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitric Oxide Binding Properties of Neuroglobin. <i>Journal of Biological Chemistry</i> , 2003, 278, 4919-4925.	3.4	113
2	Electron Paramagnetic Resonance Evidence for Binding of Cu ²⁺ to the C-terminal Domain of the Murine Prion Protein. <i>Biophysical Journal</i> , 2001, 81, 516-525.	0.5	106
3	Mechanism of the Cull-catalyzed benzylic oxygenation of (aryl)(heteroaryl)methanes with oxygen. <i>Chemical Science</i> , 2016, 7, 346-357.	7.4	86
4	Nature of the Chemical Bond between Metal Atoms and Oxide Surfaces: A New Evidence from Spin Density Studies of K Atoms on Alkaline Earth Oxides. <i>Journal of the American Chemical Society</i> , 2005, 127, 16935-16944.	13.7	81
5	Iodide-Catalyzed Synthesis of Secondary Thiocarbamates from Isocyanides and Thiosulfonates. <i>Organic Letters</i> , 2016, 18, 2808-2811.	4.6	81
6	Lignin-Supported Heterogeneous Photocatalyst for the Direct Generation of H ₂ O ₂ from Seawater. <i>Journal of the American Chemical Society</i> , 2022, 144, 2603-2613.	13.7	80
7	Multifrequency EPR analysis of the positive polaron in I ₂ -doped poly(3-hexylthiophene) and in poly[2-methoxy-5-(3,7-dimethyloctyloxy)]-1,4-phenylenevinylene. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 7129.	2.8	72
8	The strength of EPR and ENDOR techniques in revealing structure-function relationships in metalloproteins. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4620.	2.8	70
9	Unraveling the Cu ²⁺ Binding Sites in the C-Terminal Domain of the Murine Prion Protein: A Pulse EPR and ENDOR Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1631-1639.	2.6	69
10	Probing the Coordinative Unsaturation and Local Environment of Ti ³⁺ Sites in an Activated High-Yield Ziegler-Natta Catalyst. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4857-4860.	13.8	65
11	Numerical Simulation of One- and Two-Dimensional ESEEM Experiments. <i>Journal of Magnetic Resonance</i> , 2002, 154, 181-191.	2.1	63
12	Axial Solvent Coordination in a Base-Off Co(II)alamin and Related Co(II)-Corrinates Revealed by 2D-EPR. <i>Journal of the American Chemical Society</i> , 2003, 125, 5915-5927.	13.7	62
13	Thiosulfonylation of Unactivated Alkenes with Visible-Light Organic Photocatalysis. <i>ACS Catalysis</i> , 2020, 10, 8765-8779.	11.2	62
14	Structural Change of the Heme Pocket Due to Disulfide Bridge Formation Is Significantly Larger for Neuroglobin than for Cytochrome b5. <i>Journal of the American Chemical Society</i> , 2004, 126, 4516-4517.	13.7	61
15	Coenzyme B Induced Coordination of Coenzyme M via Its Thiol Group to Ni(II) of F ₄₃₀ in Active Methyl-Coenzyme M Reductase. <i>Journal of the American Chemical Society</i> , 2003, 125, 4988-4989.	13.7	59
16	A Pulse EPR and ENDOR Investigation of the Electronic Structure of a σ -Carbon-Bonded Cobalt(IV) Corrole. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2801-2811.	2.6	54
17	Synthesis, structural and chemical properties of iron oxide-silica aerogels. Electronic supplementary information (ESI) available: cumulative pore volumes and t-plots of the calcined aerogels prepared by different sol-gel methods, and of aerogels with different iron loadings. See http://www.rsc.org/suppdata/lim/b1/b108120a1 . <i>Journal of Materials Chemistry</i> , 2002, 12, 619-630.	6.7	54
18	Spin Density and Coenzyme M Coordination Geometry of the ox ¹ Form of Methyl-Coenzyme M Reductase: A Pulse EPR Study. <i>Journal of the American Chemical Society</i> , 2005, 127, 17744-17755.	13.7	54

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19	Matrix effects on copper(ii)phthalocyanine complexes. A combined continuous wave and pulse EPR and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1942.	2.8	51
20	Characterization of Nonsymbiotic Tomato Hemoglobin. <i>Biophysical Journal</i> , 2005, 89, 2628-2639.	0.5	49
21	Novel Routes to Cu(salicylaldimine) Covalently Bound to Silica: A Combined Pulse EPR and in Situ Attenuated Total Reflection-IR Studies of the Immobilization. <i>Inorganic Chemistry</i> , 2003, 42, 2559-2571.	4.0	47
22	HisE11 and HisF8 Provide Bis-histidyl Heme Hexa-coordination in the Globin Domain of <i>Geobacter sulfurreducens</i> Globin-coupled Sensor. <i>Journal of Molecular Biology</i> , 2009, 386, 246-260.	4.2	47
23	A surprising system: polymeric nanoreactors containing a mimic with dual-enzyme activity. <i>Soft Matter</i> , 2011, 7, 5595.	2.7	47
24	Stability and Cu(II) Binding of Prion Protein Variants Related to Inherited Human Prion Diseases. <i>Biophysical Journal</i> , 2003, 84, 1985-1997.	0.5	45
25	Neuroglobin and cytoglobin as potential enzyme or substrate. <i>Gene</i> , 2007, 398, 103-113.	2.2	45
26	A Multi-Frequency Pulse EPR and ENDOR Approach to Study Strongly Coupled Nuclei in Frozen Solutions of High-Spin Ferric Heme Proteins. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3859-3870.	2.6	43
27	Paramagnetic nanoparticles as potential MRI contrast agents: characterization, NMR relaxation, simulations and theory. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 467-478.	2.0	42
28	Roles of distal aspartate and arginine of B-class dye-decolorizing peroxidase in heterolytic hydrogen peroxide cleavage. <i>Journal of Biological Chemistry</i> , 2018, 293, 14823-14838.	3.4	41
29	Elucidating the Nature and Reactivity of Ti Ions Incorporated in the Framework of AlPO-5 Molecular Sieves. New Evidence from ³¹ P HYSCORE Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 7340-7343.	13.7	40
30	Light-Induced Processes in Plasmonic Gold/TiO ₂ Photocatalysts Studied by Electron Paramagnetic Resonance. <i>Topics in Catalysis</i> , 2015, 58, 776-782.	2.8	40
31	Dead Time-Dependent Line Distortions in Absolute-Value Electron Spin Echo Envelope Modulation Spectra. <i>Journal of Magnetic Resonance</i> , 1999, 136, 152-158.	2.1	38
32	Synthesis, X-ray Structure, Magnetic Resonance, and DFT Analysis of a Soluble Copper(II) Phthalocyanine Lacking C ^α -H Bonds. <i>Inorganic Chemistry</i> , 2010, 49, 8779-8789.	4.0	38
33	Direct spectroscopic evidence for binding of anastrozole to the iron heme of human aromatase. Peering into the mechanism of aromatase inhibition. <i>Chemical Communications</i> , 2011, 47, 10737.	4.1	38
34	DEER Sensitivity between Iron Centers and Nitroxides in Heme-Containing Proteins Improves Dramatically Using Broadband, High-Field EPR. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1411-1415.	4.6	38
35	Formation of a Cobalt(III) ⁺ Phenoxy Radical Complex by Acetic Acid Promoted Aerobic Oxidation of a Co(II)salen Complex. <i>Inorganic Chemistry</i> , 2010, 49, 2083-2092.	4.0	37
36	Exploring the oxidative mechanisms of bitumen after laboratory short- and long-term ageing. <i>Construction and Building Materials</i> , 2021, 289, 123182.	7.2	37

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37	The Nerve Hemoglobin of the Bivalve Mollusc <i>Spisula solidissima</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 5364-5372.	3.4	36
38	A two-dimensional sum combination frequency pulse EPR experiment. <i>Chemical Physics Letters</i> , 1997, 281, 297-305.	2.6	35
39	Hydration Structure of the Ti(III) Cation as Revealed by Pulse EPR and DFT Studies: New Insights into a Textbook Case. <i>Inorganic Chemistry</i> , 2011, 50, 2385-2394.	4.0	34
40	Characterization of the MCRred2 form of methyl-coenzyme M reductase: a pulse EPR and ENDOR study. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 586-593.	2.6	33
41	Vanadium Silicalite-1 Nanoparticles Deposition onto the Mesoporous Walls of SBA-15. Mechanistic Insights from a Combined EPR and Raman Study. <i>Journal of the American Chemical Society</i> , 2006, 128, 8955-8963.	13.7	33
42	Experimental investigation of the oxidative ageing mechanisms in bitumen. <i>Construction and Building Materials</i> , 2020, 260, 119702.	7.2	32
43	Analysing low-spin ferric complexes using pulse EPR techniques: a structure determination of bis (4-methylimidazole)(tetraphenylporphyrinato)iron(III). <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5324.	2.8	31
44	The effect of reactive oxygen and nitrogen species on the structure of cytoglobin: A potential tumor suppressor. <i>Redox Biology</i> , 2018, 19, 1-10.	9.0	31
45	Copper(II) Binding to the Human Doppel Protein May Mark Its Functional Diversity from the Prion Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 36497-36503.	3.4	30
46	Characterization of a Globin-coupled Oxygen Sensor with a Gene-regulating Function. <i>Journal of Biological Chemistry</i> , 2007, 282, 37325-37340.	3.4	30
47	A Pulse EPR and ENDOR Investigation of the Electronic and Geometric Structure of Cobaltous Tetraphenylporphyrin(Pyridine). <i>Journal of Physical Chemistry A</i> , 1999, 103, 5446-5455.	2.5	29
48	Double Nuclear Coherence Transfer (DONUT)-HYSCORE: A New Tool for the Assignment of Nuclear Frequencies in Pulsed EPR Experiments. <i>Journal of the American Chemical Society</i> , 1998, 120, 7020-7029.	13.7	28
49	EPR-spectroscopic evidence of a dominant His ⁶⁴ -His coordination in ferric neuroglobin. <i>Chemical Physics Letters</i> , 2002, 361, 355-361.	2.6	28
50	ENDOR and HYSCORE analysis and DFT-assisted identification of the third major stable radical in sucrose single crystals X-irradiated at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1105.	2.8	28
51	ENDOR study of an O ^{•-} ion observed in x-ray-irradiated carbonated hydroxyapatite powders. <i>Physical Review B</i> , 1996, 53, 5190-5197.	3.2	27
52	A continuous wave and pulse electron paramagnetic resonance study of Co(II) (tetraphenylporphyrin) in different matrices. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 159-166.	2.8	27
53	A Continuous Wave and Pulse EPR and ENDOR Investigation of Oxygenated Co(II) Corrin Complexes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7554-7563.	2.6	27
54	Corrin nitrogens and remote dimethylbenzimidazole nitrogen interactions in Cob(II)alamin studied with HYSCORE at X- and Q-band. <i>Chemical Physics Letters</i> , 2002, 358, 8-16.	2.6	27

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55	Analyzing heme proteins using EPR techniques: the heme-pocket structure of ferric mouse neuroglobin. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 467-475.	2.6	26
56	Structural characterization of a highly active superoxide-dismutase mimic. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6778.	2.8	26
57	Oxidative Stress in Plants: EPR Monitoring in DMPO-DMSO Based Extracts. <i>Journal of Plant Physiology</i> , 1999, 154, 132-136.	3.5	25
58	S-band (24 GHz) pulse electron paramagnetic resonance spectrometer: Construction, probe head design, and performance. <i>Review of Scientific Instruments</i> , 2000, 71, 2807-2817.	1.3	25
59	Effects of the Dendrimer Cage on O ₂ Binding of Dendritic Cobalt(II) Porphyrins. <i>ChemPhysChem</i> , 2002, 3, 659.	2.1	25
60	V ₆ O ₁₃ films by control of the oxidation state from aqueous precursor to crystalline phase. <i>Dalton Transactions</i> , 2013, 42, 959-968.	3.3	25
61	Direct Solar Energy-Mediated Synthesis of Tertiary Benzylic Alcohols Using a Metal-Free Heterogeneous Photocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 530-540.	6.7	25
62	Continuous Wave and Pulse EPR and ENDOR Study of Oxygenated Cobalt(II) Heme Model Systems. <i>Journal of Physical Chemistry B</i> , 2000, 104, 2919-2927.	2.6	23
63	Direct spectroscopic detection of framework-incorporated vanadium in mesoporous silica materials. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5823.	2.8	23
64	Mechanistic Insight into the Photocatalytic Working of Fluorinated Anatase {001} Nanosheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26275-26286.	3.1	23
65	Temperature dependence of NO binding modes in human neuroglobin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1702, 153-161.	2.3	22
66	Unraveling the Photocatalytic Activity of Multiwalled Hydrogen Trititanate and Mixed-Phase Anatase/Trititanate Nanotubes: A Combined Catalytic and EPR Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2302-2313.	3.1	22
67	EPR Spectroscopy in Catalysis. <i>Topics in Current Chemistry</i> , 2011, 321, 1-39.	4.0	22
68	Copper binding sites in the C-terminal domain of mouse prion protein: A hybrid (QM/MM) molecular dynamics study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1084-1098.	2.6	21
69	Globin-like proteins in <i>Caenorhabditis elegans</i> : in vivo localization, ligand binding and structural properties. <i>BMC Biochemistry</i> , 2010, 11, 17.	4.4	21
70	Copper(II)-Binding Ability of Stereoisomeric <i>cis</i> - and <i>trans</i> -2-Aminocyclohexanecarboxylic Acid- <i>l</i> -Phenylalanine Dipeptides. A Combined CW/Pulsed EPR and DFT Study. <i>Inorganic Chemistry</i> , 2012, 51, 1386-1399.	4.0	21
71	Paramagnetic spherical nanoparticles by the self-assembly of persistent trityl radicals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3151-3158.	2.8	21
72	Structural Investigation of Vanadyl-Acetylacetonate-Containing Precursors of TiO _x -VO _x Mixed Oxides on SBA-15. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19404-19412.	2.6	20

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73	Visualizing Diastereomeric Interactions of Chiral Amineâ€“Chiral Copper Salen Adducts by EPR Spectroscopy and DFT. <i>Inorganic Chemistry</i> , 2011, 50, 6944-6955.	4.0	20
74	Self-assembled trityl radical capsules â€“ implications for dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5785-5794.	2.8	20
75	The power of electron paramagnetic resonance to study asymmetric homogeneous catalysts based on transition-metal complexes. <i>Coordination Chemistry Reviews</i> , 2009, 253, 2116-2130.	18.8	19
76	Specific His₆-tag Attachment to Metal-Functionalized Polymersomes Relies on Molecular Recognition. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10113-10124.	2.6	19
77	Distance determination between low-spin ferric haem and nitroxide spin label using DEER: the neuroglobin case. <i>Molecular Physics</i> , 2013, 111, 2855-2864.	1.7	19
78	Continuous wave and pulse EPR as a tool for the characterization of monocyclopentadienyl Ti(III) catalysts. <i>Journal of Organometallic Chemistry</i> , 2001, 634, 185-192.	1.8	18
79	Studying high-spin ferric heme proteins by pulsed EPR spectroscopy: Analysis of the ferric form of the E7Q mutant of human neuroglobin. <i>Applied Magnetic Resonance</i> , 2007, 31, 553-572.	1.2	18
80	Marked Difference in the Electronic Structure of Cyanide-Ligated Ferric Protoglobins and Myoglobin Due to Heme Ruffling. <i>Inorganic Chemistry</i> , 2012, 51, 8834-8841.	4.0	18
81	Observation of an Organic Acid Mediated Spin State Transition in a Co(II)â€“Schiff Base Complex: An EPR, HYSCORE, and DFT Study. <i>Inorganic Chemistry</i> , 2012, 51, 8014-8024.	4.0	18
82	EPR investigation of TiCl₃ dissolved in polar solvents â€“ implications for the understanding of active Ti(<sc>iii</sc>) species in heterogeneous Zieglerâ€“Natta catalysts. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19625.	2.8	18
83	Multiâ€“frequency (S, X, Q and Wâ€“band) EPR and ENDOR Study of Vanadium(IV) Incorporation in the Aluminium Metalâ€“Organic Framework MILâ€“53. <i>ChemPhysChem</i> , 2015, 16, 2968-2973.	2.1	18
84	The effect of the buffer solution on the adsorption and stability of horse heart myoglobin on commercial mesoporous titanium dioxide: a matter of the right choice. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13503-13514.	2.8	18
85	Amperometric Flow-Injection Analysis of Phenols Induced by Reactive Oxygen Species Generated under Daylight Irradiation of Titania Impregnated with Horseradish Peroxidase. <i>Analytical Chemistry</i> , 2020, 92, 3643-3649.	6.5	18
86	Photocatalytic Removal of Soot: Unravelling of the Reaction Mechanism by EPR and in situ FTIR Spectroscopy. <i>ChemPhysChem</i> , 2012, 13, 4251-4257.	2.1	17
87	Aqueous citrato-oxovanadate(<sc>iv</sc>) precursor solutions for VO₂: synthesis, spectroscopic investigation and thermal analysis. <i>Dalton Transactions</i> , 2014, 43, 12614-12623.	3.3	17
88	Characterisation of Nanohybrids of Porphyrins with Metallic and Semiconducting Carbon Nanotubes by EPR and Optical Spectroscopy. <i>ChemPhysChem</i> , 2008, 9, 1930-1941.	2.1	16
89	Low bandgap polymers based on bay-annulated indigo for organic photovoltaics: Enhanced sustainability in material design and solar cell fabrication. <i>Organic Electronics</i> , 2017, 50, 264-272.	2.6	16
90	A Multifrequency HYSCORE Study of Weakly Coupled Nuclei in Frozen Solutions of High-Spin Aquometmyoglobin. <i>Inorganic Chemistry</i> , 2008, 47, 11294-11304.	4.0	15

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91	An N-Myristoylated Globin with a Redox-Sensing Function That Regulates the Defecation Cycle in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2012, 7, e48768.	2.5	15
92	Electronic structure of positive and negative polarons in functionalized dithienylthiazolo[5,4-d]thiazoles: a combined EPR and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10032.	2.8	15
93	Antarctic fish versus human cytoglobins – The same but yet so different. <i>Journal of Inorganic Biochemistry</i> , 2017, 173, 66-78.	3.5	15
94	The Interplay of Stability between Donor and Acceptor Materials in a Fullerene-Free Bulk Heterojunction Solar Cell Blend. <i>Advanced Energy Materials</i> , 2020, 10, 2002095.	19.5	15
95	Tracing the Structure-Function Relationship of Neuroglobin and Cytoglobin using Resonance Raman and Electron Paramagnetic Resonance Spectroscopy. <i>IUBMB Life</i> , 2004, 56, 665-670.	3.4	14
96	Micro-resonance Raman study of optically trapped <i>Escherichia coli</i> cells overexpressing human neuroglobin. <i>Journal of Biomedical Optics</i> , 2007, 12, 044009.	2.6	14
97	Probing the heme-pocket structure of the paramagnetic forms of cytoglobin and a distal histidine mutant using electron paramagnetic resonance. <i>Molecular Physics</i> , 2007, 105, 2073-2086.	1.7	14
98	Detection and structural characterization of oxo-chromium(V)–sugar complexes by electron paramagnetic resonance. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2011, 66, 69-120.	0.9	14
99	EPR investigation of the role of B10 phenylalanine in neuroglobin – Evidence that B10Phe mediates structural changes in the heme region upon disulfide-bridge formation. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1131-1137.	3.5	14
100	The use of composite pulses for improving DEER signal at 94 GHz. <i>Journal of Magnetic Resonance</i> , 2017, 278, 122-133.	2.1	14
101	Single-crystal and powder electron-nuclear double resonance of $\text{RbCl:O}_2^{\bullet-}$: A comparison between the spin Hamiltonian parameters obtained from both experiments. <i>Physical Review B</i> , 1995, 51, 12480-12490.	3.2	13
102	One- and two-dimensional pulse electron paramagnetic resonance spectroscopy: concepts and applications. <i>Die Naturwissenschaften</i> , 2000, 87, 245-255.	1.6	13
103	The electronic structure of N,N'-bis(3,5-di-tert-butylsalicylidene)-1,2-cyclohexane-diamino cobalt(II). <i>Chemical Physics Letters</i> , 2008, 464, 31-37.	2.6	13
104	Charge transfer in the weak driving force limit in blends of MDMO-PPV and dithienylthiazolo[5,4-d]thiazoles towards organic photovoltaics with high VOC. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15774.	2.8	13
105	Photoreduction and light-induced triplet-state formation in a single-site fluoroalkylated zinc phthalocyanine. <i>Dalton Transactions</i> , 2014, 43, 14942-14948.	3.3	13
106	The homopentameric chlorite dismutase from <i>Magnetospirillum</i> sp.. <i>Journal of Inorganic Biochemistry</i> , 2015, 151, 1-9.	3.5	13
107	Ligation Tunes Protein Reactivity in an Ancient Haemoglobin: Kinetic Evidence for an Allosteric Mechanism in <i>Methanosarcina acetivorans</i> Protoglobin. <i>PLoS ONE</i> , 2012, 7, e33614.	2.5	13
108	Towards Developing a Screening Strategy for Ecstasy: Revealing the Electrochemical Profile. <i>ChemElectroChem</i> , 2021, 8, 4826-4834.	3.4	13

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109	Accessibility and Dispersion of Vanadyl Sites of Vanadium Silicate-1 Nanoparticles Deposited in SBA-15. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12966-12975.	3.1	12
110	Understanding heme proteins with hyperfine spectroscopy. <i>Journal of Magnetic Resonance</i> , 2017, 280, 79-88.	2.1	12
111	Disentangling overlapping high-field EPR spectra of organic radicals: Identification of light-induced polarons in the record fullerene-free solar cell blend PBDB-T:ITIC. <i>Journal of Magnetic Resonance</i> , 2018, 288, 1-10.	2.1	12
112	A Versatile <i>in situ</i> Electron Paramagnetic Resonance Spectroelectrochemical Approach for Electrocatalyst Research. <i>ChemElectroChem</i> , 2020, 7, 4578-4586.	3.4	12
113	ENDOR study of RbCl: S ₂ ? . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 2541.	1.7	11
114	The hemoglobins of the trematodes <i>Fasciola hepatica</i> and <i>Paramphistomum epiclitum</i> : A molecular biological, physicochemical, kinetic, and vaccination study. <i>Protein Science</i> , 2008, 17, 1653-1662.	7.6	11
115	Interactions of an asymmetric amine with a non-C ₂ symmetric Cu ^{II} salen complex: An EPR/ENDOR and HYSCORE investigation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20427.	2.8	11
116	Olefin isomerization reactions catalyzed by ruthenium hydrides bearing Schiff base ligands. <i>Applied Organometallic Chemistry</i> , 2011, 25, 601-607.	3.5	11
117	Probing framework-guest interactions in phenylene-bridged periodic mesoporous organosilica using spin-probe EPR. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22623-22631.	2.8	11
118	Direct-synthesis method towards copper-containing periodic mesoporous organosilicas: detailed investigation of the copper distribution in the material. <i>Dalton Transactions</i> , 2015, 44, 9970-9979.	3.3	11
119	Ligand Binding to Chlorite Dismutase from <i>Magnetospirillum</i> sp.. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13859-13869.	2.6	11
120	Characterization of the Heme Pocket Structure and Ligand Binding Kinetics of Non-symbiotic Hemoglobins from the Model Legume <i>Lotus japonicus</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 407.	3.6	11
121	ZnTi layered double hydroxides as photocatalysts for salicylic acid degradation under visible light irradiation. <i>Applied Clay Science</i> , 2020, 197, 105757.	5.2	11
122	On the Track of Long-Range Electron Transfer in B-Type Dye-Decolorizing Peroxidases: Identification of a Tyrosyl Radical by Computational Prediction and Electron Paramagnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2021, 60, 1226-1241.	2.5	11
123	New hyperfine-decoupling schemes in electron paramagnetic resonance spectroscopy. <i>Chemical Physics Letters</i> , 1999, 308, 187-194.	2.6	10
124	Enantioselective binding of structural epoxide isomers by a chiral vanadyl salen complex: a pulsed EPR, cw-ENDOR and DFT investigation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6757.	2.8	10
125	Spectral characterization of the recombinant mouse tumor suppressor 101F6 protein. <i>European Biophysics Journal</i> , 2010, 39, 1129-1142.	2.2	10
126	Structure and pulsed EPR characterization of N,N'-bis(5-tert-butylsalicylidene)-1,2-cyclohexanediamino-vanadium(IV) oxide and its adducts with propylene oxide. <i>Dalton Transactions</i> , 2011, 40, 7454.	3.3	10

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127	Axial ligation of the high-potential heme center in an Arabidopsis cytochrome b 561. <i>FEBS Letters</i> , 2011, 585, 545-548.	2.8	10
128	Identifying intermediates in the reductive intramolecular cyclisation of allyl 2-bromobenzyl ether by an improved electron paramagnetic resonance spectroelectrochemical electrode design combined with density functional theory calculations. <i>Electrochimica Acta</i> , 2018, 271, 10-18.	5.2	10
129	Enzymatic sensor for phenols based on titanium dioxide generating surface confined ROS after treatment with H ₂ O ₂ . <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 343-348.	7.8	10
130	The Power of Using Continuous-Wave and Pulsed Electron Paramagnetic Resonance Methods for the Structure Analysis of Ferric Forms and Nitric Oxide-Ligated Ferrous Forms of Globins. <i>Methods in Enzymology</i> , 2008, 437, 287-310.	1.0	9
131	Probing the role of weak outer sphere interactions (H-bonds) in VO(3,5-tBu ₂ -salophen) " Epoxide adducts by EPR, ENDOR and HYSCORE. <i>Chemical Physics Letters</i> , 2010, 486, 74-79.	2.6	9
132	Influence of Synthesis Conditions on Properties of Ethane-Bridged Periodic Mesoporous Organosilica Materials as Revealed by Spin-Probe EPR. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22723-22731.	3.1	9
133	Chemical changes in irradiated polypropylene studied by X-ray photoabsorption and advanced EPR/ENDOR spectroscopies. <i>European Polymer Journal</i> , 2014, 53, 223-229.	5.4	9
134	Reactive oxygen species formation at Pt nanoparticles revisited by electron paramagnetic resonance and electrochemical analysis. <i>Electrochemistry Communications</i> , 2021, 122, 106878.	4.7	9
135	Correlation between the Fluorination Degree of Perfluorinated Zinc Phthalocyanines, Their Singlet Oxygen Generation Ability, and Their Photoelectrochemical Response for Phenol Sensing. <i>Analytical Chemistry</i> , 2022, 94, 5221-5230.	6.5	9
136	The heme pocket of the globin domain of the globin-coupled sensor of <i>Geobacter sulfurreducens</i> " An EPR study. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 1022-1028.	3.5	8
137	New insights on the mechanism of oxidation of d-galacturonic acid by hypervalent chromium. <i>Dalton Transactions</i> , 2011, 40, 7033.	3.3	8
138	Probing the coordination environment of Ti ³⁺ ions coordinated to nitrogen-containing Lewis bases. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20853-20860.	2.8	8
139	Electron Paramagnetic Resonance and DFT Analysis of the Effects of Bulky Perfluoroalkyl Substituents on a Vanadyl Perfluoro Phthalocyanine. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 887-903.	2.8	8
140	Copper(II) Complexes of Sulfonated Salan Ligands: Thermodynamic and Spectroscopic Features and Applications for Catalysis of the Henry Reaction. <i>Inorganic Chemistry</i> , 2021, 60, 11259-11272.	4.0	8
141	Light-Induced Charge Transfer in Two-Dimensional Hybrid Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18317-18327.	3.1	8
142	Ammoniated Electrons Stabilized at the Surface of MgO. <i>Journal of the American Chemical Society</i> , 2009, 131, 12664-12670.	13.7	7
143	The nature of Cu(II) species in ATRP: New insights via EPR. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1493-1501.	2.3	7
144	Is the heme pocket region modulated by disulfide-bridge formation in fish and amphibian neuroglobins as in humans?. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1757-1763.	2.3	7

#	ARTICLE	IF	CITATIONS
145	A Globin Domain in a Neuronal Transmembrane Receptor of <i>Caenorhabditis elegans</i> and <i>Ascaris suum</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 10336-10352.	3.4	7
146	A continuous in-situ EPR electrochemical reactor as a rapid in-depth mechanistic screening tool for electrocatalysis. <i>Electrochemistry Communications</i> , 2018, 97, 42-45.	4.7	7
147	ENDOR investigation of S ²⁺ , SSe ⁺ and Se ²⁺ defects in NaCl. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 1579-1586.	1.7	6
148	Electron-nuclear double-resonance analysis of diatomic sulfur and selenium defects in NaBr and NaI. <i>Physical Review B</i> , 1996, 54, 1145-1152.	3.2	6
149	Solvent effects of cobalt(II) phthalocyanine in sulfuric acid: a continuous wave and pulse EPR study. <i>Journal of Porphyrins and Phthalocyanines</i> , 2003, 07, 89-96.	0.8	6
150	Evaluating π - π stacking effects in macrocyclic transition metal complexes using EPR techniques. <i>Research on Chemical Intermediates</i> , 2007, 33, 807-823.	2.7	6
151	EPR, ENDOR and HYSCORE study of X-ray induced centres in K ₂ YF ₅ thermoluminescent phosphors. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1789.	2.8	6
152	A Pulsed EPR and DFT Investigation of the Stabilization of Coordinated Phenoxyl Radicals in a Series of Cobalt Schiff-Base Complexes. <i>Applied Magnetic Resonance</i> , 2010, 37, 289-303.	1.2	6
153	Novel method to synthesize highly ordered ethane-bridged PMOs under mild acidic conditions: Taking advantages of phosphoric acid. <i>Microporous and Mesoporous Materials</i> , 2015, 207, 61-70.	4.4	6
154	New insights into the mesophase transformation of ethane-bridged PMOs by the influence of different counterions under basic conditions. <i>RSC Advances</i> , 2015, 5, 5553-5562.	3.6	6
155	Chemical Composition of an Aqueous Oxalato-/Citrate-VO ²⁺ Solution as Determinant for Vanadium Oxide Phase Formation. <i>Inorganic Chemistry</i> , 2015, 54, 69-78.	4.0	6
156	Electron paramagnetic resonance of globin proteins – A successful match between spectroscopic development and protein research. <i>Molecular Physics</i> , 2018, 116, 287-309.	1.7	6
157	Temperature dependence of O ₂ 3 electron paramagnetic resonance signals in KCl. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3691.	1.7	5
158	Structural analysis of newly designed platinum compounds with interesting conductivity and optical properties. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 405-412.	2.8	5
159	Dynamics by EPR: Picosecond to Microsecond Time Scales. , 2005, , 219-242.		5
160	A combined micro-resonance Raman and absorption set-up enabling in vivo studies under varying physiological conditions: The nerve globin in the nerve cord of <i>Aphrodite aculeata</i> . <i>Journal of Proteomics</i> , 2007, 70, 627-633.	2.4	5
161	Unusual flexibility of distal and proximal histidine residues in the haem pocket of <i>Drosophila melanogaster</i> haemoglobin. <i>Metallomics</i> , 2009, 1, 256.	2.4	5
162	EPR Analysis of Imidazole Binding to <i>Methanosarcina acetivorans</i> Protoglobin. <i>Applied Magnetic Resonance</i> , 2015, 46, 421-433.	1.2	5

#	ARTICLE	IF	CITATIONS
163	Fourth stable radical species in X-irradiated solid-state sucrose. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10983-10991.	2.8	5
164	EPR study of NaCl: CO ₂ ? and NaCl : SO ₂ ?. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 3261.	1.7	4
165	Probing the Structure-Function Relationship of Heme Proteins Using Multifrequency Pulse EPR Techniques. <i>Biological Magnetic Resonance</i> , 2009, , 397-417.	0.4	4
166	High-frequency EPR applications of open nonradiative resonators. <i>Journal of Magnetic Resonance</i> , 2009, 200, 29-37.	2.1	4
167	EPR analysis of cyanide complexes of wild-type human neuroglobin and mutants in comparison to horse heart myoglobin. <i>Biophysical Chemistry</i> , 2014, 190-191, 8-16.	2.8	4
168	Hydration and Confinement Effects on Horse Heart Myoglobin Adsorption in Mesoporous TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 23393-23404.	3.1	4
169	Structural and Functional Characterization of the Globin-Coupled Sensors of <i>Azotobacter vinelandii</i> and <i>Bordetella pertussis</i> . <i>Antioxidants and Redox Signaling</i> , 2020, 32, 378-395.	5.4	4
170	EPR of Compound I: An Illustrated Revision of the Theoretical Model. <i>Applied Magnetic Resonance</i> , 2020, 51, 1559-1589.	1.2	4
171	Synthesis - properties correlation and the unexpected role of the titania support on the Grignard surface modification. <i>Applied Surface Science</i> , 2020, 527, 146851.	6.1	4
172	Arresting the Catalytic Arginine in Chlorite Dismutases: Impact on Heme Coordination, Thermal Stability, and Catalysis. <i>Biochemistry</i> , 2021, 60, 621-634.	2.5	4
173	Electron Paramagnetic Resonance of an O ₂ Ion Trapped in KI. <i>Physica Status Solidi (B): Basic Research</i> , 1994, 182, 211-217.	1.5	3
174	The solid-state organization of -self-doped™ PPV oligomers. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18516.	2.8	3
175	Probing differences in binding of methylbenzylamine enantiomers to chiral cobalt(ii) salen complexes. <i>Dalton Transactions</i> , 2012, 41, 6861.	3.3	3
176	Structural Bases for the Regulation of CO Binding in the Archaeal Protoglobin from <i>Methanosarcina acetivorans</i> . <i>PLoS ONE</i> , 2015, 10, e0125959.	2.5	3
177	The Non-innocent Role of Spin Traps in Monitoring Radical Formation in Copper-Catalyzed Reactions. <i>Applied Magnetic Resonance</i> , 2020, 51, 1529-1542.	1.2	3
178	Pitfalls in Sample Preparation of Metalloproteins for Low-Temperature EPR: The Example of Alkaline Myoglobin. <i>Applied Magnetic Resonance</i> , 2022, 53, 1105-1119.	1.2	3
179	Impact of the dynamics of the catalytic arginine on nitrite and chlorite binding by dimeric chlorite dismutase. <i>Journal of Inorganic Biochemistry</i> , 2022, 227, 111689.	3.5	3
180	Comparison between the EPR data of different superoxide ions in alkali halides. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 196, 213-229.	1.5	2

#	ARTICLE	IF	CITATIONS
181	Effects of copper and vanadium deposition in multi-walled hydrogen trititanate and mixed-phase anatase/trititanate nanotubes. Dalton Transactions, 2013, 42, 12148.	3.3	2
182	Electronic Structure of the Positive Radical of ¹³ C-Labeled Poly(3-Octylthiophene Vinylene) Polymer. Applied Magnetic Resonance, 2014, 45, 827-839.	1.2	2
183	An EPR study and spin-Hamiltonian analysis of a new SSe-defect in NaCl. Journal of Physics Condensed Matter, 1994, 6, 8065-8076.	1.8	1
184	EPR Characterization of the Light-Induced Negative Polaron in a Functionalized Dithienylthiazolo[5,4-d]thiazole Acceptor for Organic Photovoltaics. Applied Magnetic Resonance, 2019, 50, 1253-1265.	1.2	1
185	Structural modeling of a novel membrane-bound globin-coupled sensor in Geobacter sulfurreducens. Computational and Structural Biotechnology Journal, 2021, 19, 1874-1888.	4.1	1
186	Vitamin B ₁₂ and Heme Models. , 2004, , 1569-1575.		0
187	Two distinct functional globin classes in Caenorhabditis elegans. Biophysical Journal, 2009, 96, 557a.	0.5	0
188	EPR and DFT analysis of biologically relevant chromium(V) complexes with d -glucitol and d -glucose. Journal of Inorganic Biochemistry, 2016, 162, 216-226.	3.5	0
189	Surprising differences in the respiratory protein of insects: A spectroscopic study of haemoglobin from the European honeybee and the malaria mosquito. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140413.	2.3	0
190	In Vitro Heme Coordination of a Dye-Decolorizing Peroxidaseâ€”The Interplay of Key Amino Acids, pH, Buffer and Glycerol. International Journal of Molecular Sciences, 2021, 22, 9849.	4.1	0