

Anton N Savitsky

List of Publications by Year in descending order

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92
papers

2,872
citations

147801

31
h-index

197818

49
g-index

97
all docs

97
docs citations

97
times ranked

2606
citing authors

#	ARTICLE	IF	CITATIONS
1	Special Issue of Applied Magnetic Resonance Celebrating the 85th Birthdays of Klaus MÅ¶bius and Kev M. Salikhov. Applied Magnetic Resonance, 2022, 53, 457.	1.2	0
2	Metallofullerene photoswitches driven by photoinduced fullerene-to-metal electron transfer. Chemical Science, 2021, 12, 7818-7838.	7.4	7
3	Integrated and Portable Magnetometer Based on Nitrogenâ€Vacancy Ensembles in Diamond. Advanced Quantum Technologies, 2021, 4, 2000111.	3.9	60
4	Cryo-EM photosystem I structure reveals adaptation mechanisms to extreme high light in Chlorella ohadii. Nature Plants, 2021, 7, 1314-1322.	9.3	18
5	Sequential Hydrogen Tunneling in o-â€Tolylmethylene. Chemistry - A European Journal, 2021, , .	3.3	5
6	Characterization of a Triplet Vinylidene. Journal of the American Chemical Society, 2021, 143, 21410-21415.	13.7	13
7	Improving B1 field homogeneity in dielectric tube resonators for EPR spectroscopy via controlled shaping of the dielectric insert. Journal of Magnetic Resonance, 2020, 311, 106685.	2.1	8
8	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. Nature Communications, 2020, 11, 4008.	12.8	95
9	Soft Dynamic Confinement of Membrane Proteins by Dehydrated Trehalose Matrices: High-Field EPR and Fast-Laser Studies. Applied Magnetic Resonance, 2020, 51, 773-850.	1.2	15
10	Intermolecular background decay in RIDME experiments. Physical Chemistry Chemical Physics, 2019, 21, 8228-8245.	2.8	33
11	Nitroxide Spin Labelsâ€Magnetic Parameters and Hydrogen-Bond Formation: A High-Field EPR and EDNMR Study. Applied Magnetic Resonance, 2019, 50, 1-16.	1.2	14
12	Investigations on the role of hemoglobin in sulfide metabolism by intact human red blood cells. Biochemical Pharmacology, 2018, 149, 163-173.	4.4	31
13	Synthesis and characterization of an Fe(μ_3) cage complex with high stability towards strong H-acids. Chemical Communications, 2018, 54, 3436-3439.	4.1	20
14	Photoredoxâ€Switchable Resorcin[4]arene Cavitands: Radical Control of Molecular Gripping Machinery via Hydrogen Bonding. Chemistry - A European Journal, 2018, 24, 1431-1440.	3.3	15
15	Thermally Activated Delayed Fluorescence in a Y ₃ N@C ₈₀ Endohedral Fullerene: Timeâ€Resolved Luminescence and EPR Studies. Angewandte Chemie, 2018, 130, 283-287.	2.0	2
16	Thermally Activated Delayed Fluorescence in a Y ₃ N@C ₈₀ Endohedral Fullerene: Timeâ€Resolved Luminescence and EPR Studies. Angewandte Chemie - International Edition, 2018, 57, 277-281.	13.8	12
17	Biomolecular EPR Meets NMR at High Magnetic Fields. Magnetochemistry, 2018, 4, 50.	2.4	21
18	Atomic-Scale Explanation of O ₂ Activation at the Auâ€TiO ₂ Interface. Journal of the American Chemical Society, 2018, 140, 18082-18092.	13.7	69

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19	Steric Heavy Atom Effect on Magnetic Anisotropy of Triplet Tribromophenyl Nitrenes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8931-8937.	2.5	5
20	Reactions of Cyclopentadienylidenes with CF ₃ I: Electron Bond Donation versus Halogen Bond Donation of the Iodine Atom. <i>Journal of Organic Chemistry</i> , 2018, 83, 7586-7592.	3.2	8
21	Computing distance distributions from dipolar evolution data with overtones: RIDME spectroscopy with Gd(III)-based spin labels. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17856-17876.	2.8	36
22	Multifrequency Multiresonance EPR Investigation of Halogen-bonded Complexes Involving Neutral Nitroxide Radicals. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 867-886.	2.8	7
23	Local water sensing: water exchange in bacterial photosynthetic reaction centers embedded in a trehalose glass studied using multiresonance EPR. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28388-28400.	2.8	16
24	Electron transfer pathways in a light, oxygen, voltage (LOV) protein devoid of the photoactive cysteine. <i>Scientific Reports</i> , 2017, 7, 13346.	3.3	45
25	ELDOR-detected NMR: A general and robust method for electron-nuclear hyperfine spectroscopy?. <i>Journal of Magnetic Resonance</i> , 2017, 280, 63-78.	2.1	35
26	Jim Hyde and the ENDOR Connection: A Personal Account. <i>Applied Magnetic Resonance</i> , 2017, 48, 1149-1183.	1.2	0
27	Effect of Dehydrated Trehalose Matrix on the Kinetics of Forward Electron Transfer Reactions in Photosystem I. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 325-345.	2.8	9
28	Dinitreno pentaradicals: organic sextet molecules. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3621.	1.9	7
29	Trehalose matrix effects on charge-recombination kinetics in Photosystem I of oxygenic photosynthesis at different dehydration levels. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1440-1454.	1.0	31
30	In Situ EPR Study of the Redox Properties of CuO ₂ Catalysts for Preferential CO Oxidation (PROX). <i>ACS Catalysis</i> , 2016, 6, 3520-3530.	11.2	97
31	EPR characterization of Mn(II) complexes for distance determination with pulsed dipolar spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25120-25135.	2.8	40
32	Protein Immobilization Capabilities of Sucrose and Trehalose Glasses: The Effect of Protein/Sugar Concentration Unraveled by High-Field EPR. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4871-4877.	4.6	46
33	Paramagnetic Molecular Grippers: The Elements of Six-State Redox Switches. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2470-2477.	4.6	12
34	MÃ¼bliusâ€“HÃ¼ckel Topology Switching in Expanded Porphyrins: EPR, ENDOR, and DFT Studies of Doublet and Triplet Open-Shell Systems. <i>Applied Magnetic Resonance</i> , 2016, 47, 757-780.	1.2	12
35	Light and Temperature Control of the Spin State of Bis(<i>p</i> -methoxyphenyl)carbene: A Magnetically Bistable Carbene. <i>Journal of the American Chemical Society</i> , 2016, 138, 1622-1629.	13.7	26
36	W-band EPR studies of high-spin nitrenes with large spin-orbit contribution to zero-field splitting. <i>Journal of Chemical Physics</i> , 2015, 143, 084313.	3.0	19

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37	Pulse Double-Resonance EPR Techniques for the Study of Metallobiomolecules. <i>Methods in Enzymology</i> , 2015, 563, 211-249.	1.0	16
38	MÃ¶bius-Ã¼ckel topology switching in an expanded porphyrin cation radical as studied by EPR and ENDOR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6644-6652.	2.8	20
39	The Magic of Disaccharide Glass Matrices for Protein Function as Decoded by High-Field EPR and FTIR Spectroscopy. <i>Applied Magnetic Resonance</i> , 2015, 46, 435-464.	1.2	8
40	Characterization of Oxygen Bridged Manganese Model Complexes Using Multifrequency ¹⁷ O-Hyperfine EPR Spectroscopies and Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13904-13921.	2.6	27
41	Changes in the Microenvironment of Nitroxide Radicals around the Glass Transition Temperature. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13797-13806.	2.6	17
42	High-field ELDOR-detected NMR study of a nitroxide radical in disordered solids: Towards characterization of heterogeneity of microenvironments in spin-labeled systems. <i>Journal of Magnetic Resonance</i> , 2014, 242, 203-213.	2.1	45
43	Structural and dynamical characteristics of trehalose and sucrose matrices at different hydration levels as probed by FTIR and high-field EPR. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9831-9848.	2.8	47
44	RIDME Spectroscopy with Gd(III) Centers. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3970-3975.	4.6	76
45	Hydrogen bonding of nitroxide spin labels in membrane proteins. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15910-15916.	2.8	20
46	Transition Ion Strikes Back: Large Magnetic Susceptibility Anisotropy in Cobalt(II) Clathrochelates. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3799-3803.	4.6	62
47	W-band ELDOR-detected NMR (EDNMR) spectroscopy as a versatile technique for the characterisation of transition metal-ligand interactions. <i>Molecular Physics</i> , 2013, 111, 2788-2808.	1.7	59
48	High-field EPR on membrane proteins - Crossing the gap to NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013, 75, 1-49.	7.5	22
49	An improved coupling design for high-frequency TE011 electron paramagnetic resonance cavities. <i>Review of Scientific Instruments</i> , 2013, 84, 014704.	1.3	5
50	Orientation Resolving Dipolar High-Field EPR Spectroscopy on Disordered Solids: II. Structure of Spin-Correlated Radical Pairs in Photosystem I. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11184-11199.	2.6	27
51	Preparation of cysteine-34 nitroxide spin labeled human Î±1-microglobulin. <i>Protein Expression and Purification</i> , 2013, 88, 33-40.	1.3	2
52	Detection of the Water-Binding Sites of the Oxygen-Evolving Complex of Photosystem II Using W-Band ¹⁷ O Electron-Double Resonance-Detected NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2012, 134, 16619-16634.	13.7	248
53	Incorporation of a high potential quinone reveals that electron transfer in Photosystem I becomes highly asymmetric at low temperature. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 946-956.	2.9	40
54	High-Field Dipolar Electron Paramagnetic Resonance (EPR) Spectroscopy of Nitroxide Biradicals for Determining Three-Dimensional Structures of Biomacromolecules in Disordered Solids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11950-11963.	2.6	35

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55	Photo-Induced Electron Spin Polarization in Chemical and Biological Reactions: Probing Structure and Dynamics of Transient Intermediates by Multifrequency EPR Spectroscopy. <i>Applied Magnetic Resonance</i> , 2011, 41, 113-143.	1.2	15
56	Alteration of the Axial Met Ligand to Electron Acceptor A0 in Photosystem I: Effect on the Generation of P 700 Å+ A 1 Å-â” Radical Pairs as Studied by W-band Transient EPR. <i>Applied Magnetic Resonance</i> , 2010, 37, 85-102.	1.2	30
57	The Temperature Dependence of Nitroxide Spin-Label Interaction Parameters: a High-Field EPR Study of Intramolecular Motional Contributions. <i>Applied Magnetic Resonance</i> , 2010, 37, 415-434.	1.2	27
58	Heterogeneity in the Nitroxide Micro-Environment: Polarity and Proticity Effects in Spin-Labeled Proteins Studied by Multi-Frequency EPR. <i>Applied Magnetic Resonance</i> , 2010, 37, 391-403.	1.2	53
59	B-Branch Electron Transfer in the Photosynthetic Reaction Center of a <i>Rhodobacter sphaeroides</i> Quadruple Mutant. Q- and W-Band Electron Paramagnetic Resonance Studies of Triplet and Radical-Pair Cofactor States. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14364-14372.	2.6	14
60	Electron-â” Nuclear and Electron-â” Electron Double Resonance Spectroscopies Show that the Primary Quinone Acceptor Q_A in Reaction Centers from Photosynthetic Bacteria <i>Rhodobacter sphaeroides</i> Remains in the Same Orientation Upon Light-Induced Reduction. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16894-16901.	2.6	23
61	Bacterial Photosynthetic Reaction Centers in Trehalose Glasses: Coupling between Protein Conformational Dynamics and Electron-Transfer Kinetics as Studied by Laser-Flash and High-Field EPR Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12729-12743.	2.6	33
62	EPR, NMR, and Thermodynamic Evidences for Forced Nuclear Spin-Label Electron Spin Interactions in the Case of 1-Phenyl-2-Methylpropyl-1,1-Dimethyl-2-Nitroxide (TIPNO) Attached to Permethylyated Î²-Cyclodextrin. <i>Applied Magnetic Resonance</i> , 2009, 36, 181-194.	1.2	9
63	High-field EPR. <i>Photosynthesis Research</i> , 2009, 102, 311-333.	2.9	44
64	Multifrequency EPR study of the mobility of nitroxides in solid-state calixarene nanocapsules. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6700.	2.8	23
65	High-Field EPR and ESEEM Investigation of the Nitrogen Quadrupole Interaction of Nitroxide Spin Labels in Disordered Solids: Toward Differentiation between Polarity and Proticity Matrix Effects on Protein Function. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9079-9090.	2.6	44
66	Characterization of Homodimeric Type I Reaction Center Cores from <i>Heliobacterium modesticaldum</i> by High-Field Electron Paramagnetic Resonance Spectroscopy. , 2008, , 69-72.		0
67	Orientation-Resolving Pulsed Electron Dipolar High-Field EPR Spectroscopy on Disordered Solids:Â I. Structure of Spin-Correlated Radical Pairs in Bacterial Photosynthetic Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6245-6262.	2.6	90
68	High-field EPR, ENDOR and ELDOR on bacterial photosynthetic reaction centers. <i>Applied Magnetic Resonance</i> , 2007, 31, 59-98.	1.2	48
69	Photosynthetic electron transport in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803: High-Field W-band and X-band EPR study of electron flow through photosystem I. <i>Applied Magnetic Resonance</i> , 2007, 31, 221-236.	1.2	5
70	Electron spin polarization in an excited triplet-radical pair system: Generation and decay of the state. <i>Applied Magnetic Resonance</i> , 2006, 30, 619-636.	1.2	14
71	Initial Radical Separation after Photolysis of 2,2-â” Azobis(isobutyronitrile) (AIBN) in Solution: Modeling the Primary Cage Effect for Polar Radicals. <i>Helvetica Chimica Acta</i> , 2006, 89, 2533-2543.	1.6	5
72	Photochemical Reactions and Photoinduced Electron-Transfer Processes in Liquids, Frozen Solutions, and Proteins as Studied by Multifrequency Time-Resolved EPR Spectroscopy. <i>Helvetica Chimica Acta</i> , 2006, 89, 2544-2589.	1.6	19

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73	Addition of Benzoyl Radicals to Butyl Acrylate: Absolute Rate Constants by Time-Resolved EPR. <i>Macromolecules</i> , 2005, 38, 7714-7720.	4.8	36
74	Combining high-field EPR with site-directed spin labeling reveals unique information on proteins in action. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, S4-S19.	1.9	62
75	Intramolecular Electron and Energy Transfer in an Axial ZnPorphyrin-Pyridylfullerene Complex As Studied by X- and W-Band Time-Resolved EPR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8451-8458.	2.5	12
76	Multifrequency Time-Resolved Electron Paramagnetic Resonance Investigations after Photolysis of Phosphine Oxide Photoinitiators. Dependence of Triplet Mechanism Chemically Induced Dynamic Electron Polarization on Microwave Frequency. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2254-2263.	2.5	17
77	High-field EPR spectroscopy applied to biological systems: characterization of molecular switches for electron and ion transfer. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 19-42.	2.8	102
78	High-Field EPR Spectroscopy on Transfer Proteins in Biological Action. <i>Acta Physica Polonica A</i> , 2005, 108, 215-234.	0.5	4
79	Spontaneous Refolding of the Pore-Forming Colicin A Toxin upon Membrane Association As Studied by X-Band and W-Band High-Field Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9541-9548.	2.6	30
80	Primary Processes in Photosynthesis: What do we learn from High-Field EPR Spectroscopy?. <i>Biological Magnetic Resonance</i> , 2004, , 45-93.	0.4	8
81	Dynamics in the Mn ²⁺ -Binding Site in Single Crystals of Concanavalin A Revealed by High-Field EPR Spectroscopy. <i>Biochemistry</i> , 2003, 42, 7863-7870.	2.5	18
82	Molecular orbital study of polarity and hydrogen bonding effects on the g and hyperfine tensors of site directed NO spin labelled bacteriorhodopsin. <i>Molecular Physics</i> , 2002, 100, 3711-3721.	1.7	108
83	Submicrosecond field-jump device for pulsed high-field ELDOR. <i>Applied Magnetic Resonance</i> , 2002, 22, 369-386.	1.2	29
84	High-field EPR-detected shifts of magnetic tensor components of spin label side chains reveal protein conformational changes: The proton entrance channel of bacteriorhodopsin. <i>Applied Magnetic Resonance</i> , 2001, 21, 441-452.	1.2	37
85	W-band time-resolved electron paramagnetic resonance spectroscopy on transient organic radicals in solution. <i>Chemical Physics Letters</i> , 2001, 340, 458-466.	2.6	16
86	Reversed triplet mechanism CIDEP in triplet azoalkanes. <i>Chemical Physics Letters</i> , 2000, 319, 403-410.	2.6	15
87	High-field EPR studies of the structure and conformational changes of site-directed spin labeled bacteriorhodopsin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1457, 253-262.	1.0	144
88	Electron Spin Polarization after Photolysis of AIBN in Solution: Initial Spatial Radical Separation. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9091-9100.	2.5	28
89	Triplet and reversed triplet mechanism CIDEP studied by quenching experiments. <i>Applied Magnetic Resonance</i> , 1997, 13, 285-295.	1.2	10
90	Quantitative time-resolved EPR CIDEP study of the photodecomposition of trans-azocumene in solution. <i>Applied Magnetic Resonance</i> , 1997, 12, 449-464.	1.2	21

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91	Dielectric Coupler for General Purpose Q-Band EPR Cavity. Applied Magnetic Resonance, 0, , 1.	1.2	1
92	Hydrogen-Bonded Complexes of Neutral Nitroxide Radicals with 2-Propanol Studied by Multifrequency EPR/ENDOR. Applied Magnetic Resonance, 0, , 1.	1.2	4