

# Antal Rockenbauer

## List of Publications by Year in descending order

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54  
papers

1,556  
citations

411340

20  
h-index

340414

39  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2009  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ simultaneous electrochemical ESR study of radicals generated from 2,2-dinitroethene-1,1-diamine (FOX-7). Intramolecular chemical exchange resulting in an alternation line-width effect. <i>Journal of Magnetic Resonance</i> , 2021, 323, 106895.	1.2	0
2	Synthesis and Redox Properties of Water-Soluble Asymmetric Trityl Radicals. <i>Journal of Organic Chemistry</i> , 2021, 86, 8351-8364.	1.7	5
3	Highly Efficient Trityl-Nitroxide Biradicals for Biomolecular High-Field Dynamic Nuclear Polarization. <i>Chemistry - A European Journal</i> , 2021, 27, 12758-12762.	1.7	16
4	Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. <i>Angewandte Chemie</i> , 2020, 132, 938-944.	1.6	6
5	Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 928-934.	7.2	18
6	Postmodification via Thiol-Click Chemistry Yields Hydrophilic Trityl-Nitroxide Biradicals for Biomolecular High-Field Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9047-9060.	1.2	30
7	Host-guest interaction of nitroxide radicals with water-soluble pillar[6]arenes. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2321-2325.	1.5	4
8	Membrane-specific spin trap, 5-dodecylcarbamoyl-5-(2-dodecylacetamide-1-pyrroline-1-ylidene)-2-imidazolepropane (diC <sub>12</sub> PO): theoretical, bioorthogonal fluorescence imaging and EPR studies. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 7694-7705.	1.5	5
9	Embedding cyclic nitron in mesoporous silica particles for EPR spin trapping of superoxide and other radicals. <i>Analyst</i> , 2019, 144, 4194-4203.	1.7	16
10	Triangular Regulation of Cucurbit[8]uril 1:1 Complexes. <i>Journal of the American Chemical Society</i> , 2019, 141, 5897-5907.	6.6	23
11	Probing the dynamic properties of two sites simultaneously in a protein-protein interaction process: a SDSL-EPR study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22584-22588.	1.3	4
12	Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. <i>Chemistry - A European Journal</i> , 2018, 24, 6958-6967.	1.7	11
13	Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. <i>Chemistry - A European Journal</i> , 2018, 24, 6865-6865.	1.7	1
14	Diastereoisomers of proline-linked trityl-nitroxide biradicals: synthesis and effect of chiral configurations on exchange interactions. <i>Chemical Science</i> , 2018, 9, 4381-4391.	3.7	33
15	Exploring the boundaries of direct detection and characterization of labile isomers: a case study of copper(II) dipeptide systems. <i>Dalton Transactions</i> , 2017, 46, 8157-8166.	1.6	0
16	Thiol-Dependent Reduction of the Triester and Triamide Derivatives of Finland Trityl Radical Triggers O <sub>2</sub> -Dependent Superoxide Production. <i>Chemical Research in Toxicology</i> , 2017, 30, 1664-1672.	1.7	14
17	New Amino Acid-Based Phosphorylated Nitroxides for Probing Acidic pH in Biological Systems by EPR Spectroscopy. <i>ChemBioChem</i> , 2017, 18, 300-315.	1.3	5
18	Biocompatibility and antibacterial activity of nitrogen-doped titanium dioxide nanoparticles for use in dental resin formulations. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 6459-6470.	3.3	35

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19	Tailoring of Polarizing Agents in the bTurea Series for Cross-Effect Dynamic Nuclear Polarization in Aqueous Media. <i>Chemistry - A European Journal</i> , 2016, 22, 5598-5606.	1.7	69
20	On the vasoprotective mechanisms underlying novel $\hat{\text{I}}^2$ -phosphorylated nitrones: Focus on free radical characterization, scavenging and NO-donation in a biological model of oxidative stress. <i>European Journal of Medicinal Chemistry</i> , 2016, 119, 197-217.	2.6	13
21	Supramolecular host-guest interaction of trityl-nitroxide biradicals with cyclodextrins: modulation of spin-spin interaction and redox sensitivity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1694-1701.	1.5	8
22	EPR Studies of the Binding Properties, Guest Dynamics, and Inner-Space Dimensions of a Water-Soluble Resorcinarene Capsule. <i>Chemistry - A European Journal</i> , 2015, 21, 16404-16410.	1.7	13
23	Frontispiece: EPR Studies of the Binding Properties, Guest Dynamics, and Inner-Space Dimensions of a Water-Soluble Resorcinarene Capsule. <i>Chemistry - A European Journal</i> , 2015, 21, .	1.7	0
24	Comprehensive Synthesis of Monohydroxycucurbit[ <i>n</i> ]urils ( <i>n</i> = 5, 6, 7, 8): High Purity and High Conversions. <i>Journal of the American Chemical Society</i> , 2015, 137, 10238-10245.	6.6	95
25	A screw model for quantum electrodynamics: from gravitation to quanta. <i>Indian Journal of Physics</i> , 2015, 89, 389-396.	0.9	0
26	Reversal of SIN-induced eNOS dysfunction by the spin trap, DMPO, in bovine aortic endothelial cells via eNOS phosphorylation. <i>British Journal of Pharmacology</i> , 2014, 171, 2321-2334.	2.7	18
27	Diversification of EPR signatures in site directed spin labeling using a $\hat{\text{I}}^2$ -phosphorylated nitroxide. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4202.	1.3	13
28	Structural Factors Controlling the Spin-Spin Exchange Coupling: EPR Spectroscopic Studies of Highly Asymmetric Trityl-Nitroxide Biradicals. <i>Journal of the American Chemical Society</i> , 2013, 135, 2350-2356.	6.6	46
29	Synthesis of Trityl Radical-Conjugated Disulfide Biradicals for Measurement of Thiol Concentration. <i>Journal of Organic Chemistry</i> , 2011, 76, 3853-3860.	1.7	38
30	Synthesis of <sup>14</sup> N- and <sup>15</sup> N-labeled Trityl-nitroxide Biradicals with Strong Spin-Spin Interaction and Improved Sensitivity to Redox Status and Oxygen. <i>Journal of Organic Chemistry</i> , 2010, 75, 7796-7802.	1.7	58
31	Biological activity and coordination modes of copper(ii) complexes of Schiff base-derived coumarin ligands. <i>Dalton Transactions</i> , 2010, 39, 10854.	1.6	59
32	Trityl-nitroxide biradicals as unique molecular probes for the simultaneous measurement of redox status and oxygenation. <i>Chemical Communications</i> , 2010, 46, 628-630.	2.2	58
33	Properties of dinitroxides for use in dynamic nuclear polarization (DNP). <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5841.	1.3	62
34	Spin Trapping and Cytoprotective Properties of Fluorinated Amphiphilic Carrier Conjugates of Cyclic versus Linear Nitrones. <i>Chemical Research in Toxicology</i> , 2009, 22, 1570-1581.	1.7	22
35	Lipophilic $\hat{\text{I}}^2$ -Cyclodextrin Cyclic-Nitrone Conjugate: Synthesis and Spin Trapping Studies. <i>Journal of Organic Chemistry</i> , 2009, 74, 5369-5380.	1.7	32
36	Equilibria of 3-Pyridylmethanol with Copper(II). A Comparative Electron Spin Resonance Study by the Decomposition of Spectra in Liquid and Frozen Solutions. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10280-10286.	1.1	17

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37	Thermodynamic Analysis of the Chemical Exchange of $^{32}\text{P}$ -Phosphorylated Cyclic Nitroxides by Using Two-dimensional (Temperature versus Magnetic Field) Simulation of ESR Spectra: The Impact of Labile Solvent-Solute Interactions on Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9542-9548.	1.1	8
38	Coordination Modes between Copper(II) and N-Acetylneuraminic (Sialic) Acid from a 2D-Simulation Analysis of EPR Spectra. Implications for Copper Mediation of Sialoglycoconjugate Chemistry Relevant to Human Biology. <i>Inorganic Chemistry</i> , 2005, 44, 2531-2543.	1.9	15
39	Copper(II) complexes of some N-substituted bis(aminomethyl)phosphinate ligands. An integrated EPR study of microspeciation and coordination modes by the two-dimensional simulation method. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1655-1666.	1.5	11
40	Great Structural Variety of Complexes in Copper(II)-Oligoglycine Systems: Microspeciation and Coordination Modes as Studied by the Two-Dimensional Simulation of Electron Paramagnetic Resonance Spectra. <i>Journal of the American Chemical Society</i> , 2003, 125, 5227-5235.	6.6	44
41	Microspeciation in the Copper(II)-L-Histidylglycine System. An ESR Study by the Two-Dimensional Computer Simulation Method. <i>Inorganic Chemistry</i> , 2002, 41, 3483-3490.	1.9	13
42	A Two-Dimensional (Magnetic Field and Concentration) Electron Paramagnetic Resonance Method for Analysis of Multispecies Complex Equilibrium Systems. Information Content of EPR Spectra. <i>Journal of the American Chemical Society</i> , 2001, 123, 7646-7654.	6.6	64
43	The reaction of 2-(tetrazol-5-yl)alkyl ketones and of 2-(tetrazol-5-yl)alkanoic acid derivatives with lead tetraacetate. A novel method of preparation of alk-2-ynyl ketones and alk-2-ynoic acid derivatives. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 1131-1139.	1.3	10
44	An electron spin resonance study of coordination modes in the copper(II)-histamine and copper(II)-L-histidine systems in fluid aqueous solution. <i>Polyhedron</i> , 2000, 19, 1123-1131.	1.0	43
45	ESR study of the copper(II)-glycylglycine equilibrium system in fluid aqueous solution. Computer analysis of overlapping multispecies spectra. <i>Magnetic Resonance in Chemistry</i> , 1999, 37, 484-492.	1.1	20
46	Nuclear and Electronic Relaxation of $\text{Eu}^{2+}(\text{aq})$ : An Extremely Labile Aqua Ion. <i>Journal of the American Chemical Society</i> , 1999, 121, 10403-10409.	6.6	79
47	ESR study of the copper(II)-glycylglycine equilibrium system in fluid aqueous solution. Computer analysis of overlapping multispecies spectra. , 1999, 37, 484.		1
48	Molecular recognition. Discrimination of specific and non-specific intermolecular interactions by means of magnetic resonance spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1998, 36, 205-210.	1.1	2
49	Molecular Recognition Analyzed by Observing Intramolecular Interconversion with EPR Spectroscopy. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1998, 53, 1511-1519.	0.3	1
50	Automatic computer simulations of ESR spectra. <i>Applied Magnetic Resonance</i> , 1996, 10, 29-43.	0.6	346
51	ESR STUDY OF COPPER(II) COMPLEXES OF $\alpha$ -AMINO ACIDS. COORDINATION MODES AND METAL-LIGAND BONDS IN FROZEN AQUEOUS SOLUTIONS. <i>Journal of Coordination Chemistry</i> , 1988, 17, 69-83.	0.8	26
52	Electron spin resonance detection of Jahn-Teller effect induced phase transition with thermal hysteresis in the copper(II) doped zinc(II)-bis(histidine) systems: Free and hindered rotation of histidine molecules in solid lattice. <i>Journal of Chemical Physics</i> , 1987, 86, 976-979.	1.2	5
53	EPR STUDY OF THE SYSTEM [DIAQUOCOBALOXIME + AMINE] AS A CATALYST FOR THE HYDROGENATION OF NITROBENZENE. <i>Journal of Coordination Chemistry</i> , 1982, 11, 205-212.	0.8	5
54	ESR DETERMINATION OF THE STABILITY CONSTANTS OF COBALOXIME(II)-PYRIDINE MIXED COMPLEXES IN METHANOL. <i>Journal of Coordination Chemistry</i> , 1972, 2, 53-56.	0.8	16