

Antal Rockenbauer

List of Publications by Year in descending order

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54
papers

1,556
citations

361413
20
h-index

302126
39
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55
all docs

55
docs citations

55
times ranked

1797
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. Journal of Magnetic Resonance, 2021, 323, 106895. | 2.1 | 0 |
| 2 | Synthesis and Redox Properties of Water-Soluble Asymmetric Trityl Radicals. Journal of Organic Chemistry, 2021, 86, 8351-8364. | 3.2 | 5 |
| 3 | Highly Efficient Trityl-Nitroxide Biradicals for Biomolecular High-Field Dynamic Nuclear Polarization. Chemistry - A European Journal, 2021, 27, 12758-12762. | 3.3 | 16 |
| 4 | Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. Angewandte Chemie, 2020, 132, 938-944. | 2.0 | 6 |
| 5 | Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. Angewandte Chemie - International Edition, 2020, 59, 928-934. | 13.8 | 18 |
| 6 | Postmodification via Thiol-Click Chemistry Yields Hydrophilic Trityl-Nitroxide Biradicals for Biomolecular High-Field Dynamic Nuclear Polarization. Journal of Physical Chemistry B, 2020, 124, 9047-9060. | 2.6 | 30 |
| 7 | Host-guest interaction of nitroxide radicals with water-soluble pillar[6]arenes. Organic and Biomolecular Chemistry, 2020, 18, 2321-2325. | 2.8 | 4 |
| 8 | Membrane-specific spin trap, 5-dodecylcarbamoyl-5-(N-dodecylacetamide-1-pyrroline-N-oxide (diC ₁₂ PO): theoretical, bioorthogonal fluorescence imaging and EPR studies. Organic and Biomolecular Chemistry, 2019, 17, 7694-7705. | 2.8 | 5 |
| 9 | Embedding cyclic nitron in mesoporous silica particles for EPR spin trapping of superoxide and other radicals. Analyst, The, 2019, 144, 4194-4203. | 3.5 | 16 |
| 10 | Triangular Regulation of Cucurbit[8]uril 1:1 Complexes. Journal of the American Chemical Society, 2019, 141, 5897-5907. | 13.7 | 23 |
| 11 | Probing the dynamic properties of two sites simultaneously in a protein-protein interaction process: a SDSL-EPR study. Physical Chemistry Chemical Physics, 2019, 21, 22584-22588. | 2.8 | 4 |
| 12 | Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. Chemistry - A European Journal, 2018, 24, 6958-6967. | 3.3 | 11 |
| 13 | Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. Chemistry - A European Journal, 2018, 24, 6865-6865. | 3.3 | 1 |
| 14 | Diastereoisomers of L-proline-linked trityl-nitroxide biradicals: synthesis and effect of chiral configurations on exchange interactions. Chemical Science, 2018, 9, 4381-4391. | 7.4 | 33 |
| 15 | Exploring the boundaries of direct detection and characterization of labile isomers - a case study of copper(II)-dipeptide systems. Dalton Transactions, 2017, 46, 8157-8166. | 3.3 | 0 |
| 16 | Thiol-Dependent Reduction of the Triester and Triamide Derivatives of Finland Trityl Radical Triggers O ₂ -Dependent Superoxide Production. Chemical Research in Toxicology, 2017, 30, 1664-1672. | 3.3 | 14 |
| 17 | New Amino-Acid-Based ³² P-Phosphorylated Nitroxides for Probing Acidic pH in Biological Systems by EPR Spectroscopy. ChemBioChem, 2017, 18, 300-315. | 2.6 | 5 |
| 18 | Biocompatibility and antibacterial activity of nitrogen-doped titanium dioxide nanoparticles for use in dental resin formulations. International Journal of Nanomedicine, 2016, Volume 11, 6459-6470. | 6.7 | 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. | 3.3 | 69 |
| 20 | On the vasoprotective mechanisms underlying novel $\hat{\gamma}$ -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. | 5.5 | 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. | 2.8 | 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. | 3.3 | 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, . | 3.3 | 0 |
| 24 | Comprehensive Synthesis of Monohydroxy-Cucurbit[n]urils ($n = 5, 6, 7, 8$): High Purity and High Conversions. <i>Journal of the American Chemical Society</i> , 2015, 137, 10238-10245. | 13.7 | 95 |
| 25 | A screw model for quantum electrodynamics: from gravitation to quanta. <i>Indian Journal of Physics</i> , 2015, 89, 389-396. | 1.8 | 0 |
| 26 | Reversal of SIN^1 -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. | 5.4 | 18 |
| 27 | Diversification of EPR signatures in site directed spin labeling using a $\hat{\gamma}$ -phosphorylated nitroxide. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4202. | 2.8 | 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. | 13.7 | 46 |
| 29 | Synthesis of Trityl Radical-Conjugated Disulfide Biradicals for Measurement of Thiol Concentration. <i>Journal of Organic Chemistry</i> , 2011, 76, 3853-3860. | 3.2 | 38 |
| 30 | Synthesis of ^{14}N - and ^{15}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. | 3.2 | 58 |
| 31 | Biological activity and coordination modes of copper(II) complexes of Schiff base-derived coumarin ligands. <i>Dalton Transactions</i> , 2010, 39, 10854. | 3.3 | 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. | 4.1 | 58 |
| 33 | Properties of dinitroxides for use in dynamic nuclear polarization (DNP). <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5841. | 2.8 | 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. | 3.3 | 22 |
| 35 | Lipophilic $\hat{\gamma}$ -Cyclodextrin Cyclic-Nitrone Conjugate: Synthesis and Spin Trapping Studies. <i>Journal of Organic Chemistry</i> , 2009, 74, 5369-5380. | 3.2 | 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. | 2.5 | 17 |

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|----|---|------|-----------|
| 37 | Thermodynamic Analysis of the Chemical Exchange of ^{31}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. | 2.5 | 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. | 4.0 | 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. | 3.5 | 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. | 13.7 | 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. | 4.0 | 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. | 13.7 | 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. | 2.2 | 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. | 1.9 | 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. | 13.7 | 79 |
| 47 | 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. | 1.9 | 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. | 1.9 | 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. | 0.7 | 1 |
| 50 | Automatic computer simulations of ESR spectra. <i>Applied Magnetic Resonance</i> , 1996, 10, 29-43. | 1.2 | 346 |
| 51 | ESR STUDY OF COPPER(II) COMPLEXES OF α -AMINO ACIDS. COORDINATION MODES AND METAL-LIGAND BONDS IN FROZEN AQUEOUS SOLUTIONS. <i>Journal of Coordination Chemistry</i> , 1988, 17, 69-83. | 2.2 | 26 |
| 52 | Electron spin resonance detection of Jahn-Teller effect induced phase transition with thermal hysteresis in the copper(II) doped zinc(II)-bis-L-histidine systems: Free and hindered rotation of histidine molecules in solid lattice. <i>Journal of Chemical Physics</i> , 1987, 86, 976-979. | 3.0 | 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. | 2.2 | 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. | 2.2 | 16 |