

Christian SchÄ¶neich

List of Publications by Year in descending order

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230
papers

11,750
citations

22132

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97
g-index

236
all docs

236
docs citations

236
times ranked

8840
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Near UV and Visible Light Photo-Degradation Mechanisms in Citrate Buffer: One-Electron Reduction of Peptide and Protein Disulfides promotes Oxidation and Cis/Trans Isomerization of Unsaturated Fatty Acids of Polysorbate 80. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 991-1003. | 1.6 | 14 |
| 2 | Oxidation and Deamidation of Monoclonal Antibody Products: Potential Impact on Stability, Biological Activity, and Efficacy. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 903-918. | 1.6 | 45 |
| 3 | Thiyl radicals: Formation, properties, and detection. , 2022, , 115-132. | | 4 |
| 4 | Intra-Micellar and Extra-Micellar Oxidation in Phosphate and Histidine Buffers Containing Polysorbate 80. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 2435-2444. | 1.6 | 2 |
| 5 | Light-Induced Histidine Adducts to an IgG1 Molecule Via Oxidized Histidine Residue and the Potential Impact of Polysorbate-20 Concentration. <i>Pharmaceutical Research</i> , 2021, 38, 491-501. | 1.7 | 9 |
| 6 | Oxidative protein modifications of protein therapeutics: targeted proteomic analysis and consequences for stability, efficacy and immunogenicity. <i>Free Radical Biology and Medicine</i> , 2021, 165, 16. | 1.3 | 0 |
| 7 | Pharmaceutical Excipients Enhance Iron-Dependent Photo-Degradation in Pharmaceutical Buffers by near UV and Visible Light: Tyrosine Modification by Reactions of the Antioxidant Methionine in Citrate Buffer. <i>Pharmaceutical Research</i> , 2021, 38, 915-930. | 1.7 | 7 |
| 8 | Visible Light Degradation of a Monoclonal Antibody in a High-Concentration Formulation: Characterization of a Tryptophan-Derived Chromophoric Photo-product by Comparison to Photo-degradation of N-Acetyl-l-tryptophan Amide. <i>Molecular Pharmaceutics</i> , 2021, 18, 3223-3234. | 2.3 | 1 |
| 9 | Photo-induced fragmentation of tyrosine side chains in IgG4-Fc: Effect of protein sequence, conformation and glycan structure. <i>Journal of Photochemistry and Photobiology</i> , 2021, 7, 100049. | 1.1 | 1 |
| 10 | Analysis of N15-rat growth hormone after incubation with rat subcutaneous tissue and immune cells using ultra-pressure chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , 2021, 634, 114425. | 1.1 | 0 |
| 11 | Proteolysis and Oxidation of Therapeutic Proteins After Intradermal or Subcutaneous Administration. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 191-205. | 1.6 | 24 |
| 12 | Cis/Trans Isomerization of Unsaturated Fatty Acids in Polysorbate 80 During Light Exposure of a Monoclonal Antibody-Containing Formulation. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 603-613. | 1.6 | 12 |
| 13 | Effects of Glycan Structure on the Stability and Receptor Binding of an IgG4-Fc. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 677-689. | 1.6 | 6 |
| 14 | Comparison of Polysorbate 80 Hydrolysis and Oxidation on the Aggregation of a Monoclonal Antibody. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 633-639. | 1.6 | 60 |
| 15 | Near UV and Visible Light Induce Iron-Dependent Photodegradation Reactions in Pharmaceutical Buffers: Mechanistic and Product Studies. <i>Molecular Pharmaceutics</i> , 2020, 17, 4163-4179. | 2.3 | 16 |
| 16 | Azocompounds as generators of defined radical species: Contributions and challenges for free radical research. <i>Free Radical Biology and Medicine</i> , 2020, 160, 78-91. | 1.3 | 34 |
| 17 | Probing Protein Conformation Destabilization in Sterile Liquid Formulations through the Formation of 3,4-Dihydroxyphenylalanine. <i>Molecular Pharmaceutics</i> , 2020, 17, 3783-3793. | 2.3 | 2 |
| 18 | Novel Formaldehyde-Induced Modifications of Lysine Residue Pairs in Peptides and Proteins: Identification and Relevance to Vaccine Development. <i>Molecular Pharmaceutics</i> , 2020, 17, 4375-4385. | 2.3 | 10 |

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| 19 | Water Distribution and Clustering on the Lyophilized IgG1 Surface: Insight from Molecular Dynamics Simulations. <i>Molecular Pharmaceutics</i> , 2020, 17, 900-908. | 2.3 | 6 |
| 20 | N-Terminal Decarboxylation as a Probe for Intramolecular Contact Formation in β -Glu-(Pro) _n -Met Peptides. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8082-8098. | 1.2 | 5 |
| 21 | Photo-Degradation of Therapeutic Proteins: Mechanistic Aspects. <i>Pharmaceutical Research</i> , 2020, 37, 45. | 1.7 | 33 |
| 22 | Radical rearrangement and transfer reactions in proteins. <i>Essays in Biochemistry</i> , 2020, 64, 87-96. | 2.1 | 4 |
| 23 | Effect of Iron Oxide Nanoparticles on the Oxidation and Secondary Structure of Growth Hormone. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 3372-3381. | 1.6 | 6 |
| 24 | Silicone Oil-Free Polymer Syringes for the Storage of Therapeutic Proteins. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1148-1160. | 1.6 | 24 |
| 25 | Xanthine oxidase-mediated oxidative stress promotes cancer cell-specific apoptosis. <i>Free Radical Biology and Medicine</i> , 2019, 139, 70-79. | 1.3 | 42 |
| 26 | Thiyl Radical Reactions in the Chemical Degradation of Pharmaceutical Proteins. <i>Molecules</i> , 2019, 24, 4357. | 1.7 | 19 |
| 27 | Glatiramer acetate persists at the injection site and draining lymph nodes via electrostatically-induced aggregation. <i>Journal of Controlled Release</i> , 2019, 293, 36-47. | 4.8 | 25 |
| 28 | Photoinduced Tyrosine Side Chain Fragmentation in IgG4-Fc: Mechanisms and Solvent Isotope Effects. <i>Molecular Pharmaceutics</i> , 2019, 16, 258-272. | 2.3 | 15 |
| 29 | Dual Effect of Histidine on Polysorbate 20 Stability: Mechanistic Studies. <i>Pharmaceutical Research</i> , 2018, 35, 33. | 1.7 | 31 |
| 30 | Understanding the Increased Aggregation Propensity of a Light-Exposed IgG1 Monoclonal Antibody Using Hydrogen Exchange Mass Spectrometry, Biophysical Characterization, and Structural Analysis. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 1498-1511. | 1.6 | 23 |
| 31 | Novel chemical degradation pathways of proteins mediated by tryptophan oxidation: tryptophan side chain fragmentation. <i>Journal of Pharmacy and Pharmacology</i> , 2018, 70, 655-665. | 1.2 | 17 |
| 32 | Fragmentation of a Monoclonal Antibody by Peroxotungstate. <i>Pharmaceutical Research</i> , 2018, 35, 219. | 1.7 | 7 |
| 33 | Identification of D-Amino Acids in Light Exposed mAb Formulations. <i>Pharmaceutical Research</i> , 2018, 35, 238. | 1.7 | 3 |
| 34 | Investigation of Metal-Catalyzed Antibody Carbonylation With an Improved Protein Carbonylation Assay. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2570-2580. | 1.6 | 5 |
| 35 | Light-Induced Covalent Buffer Adducts to Histidine in a Model Protein. <i>Pharmaceutical Research</i> , 2018, 35, 67. | 1.7 | 12 |
| 36 | Postproduction Handling and Administration of Protein Pharmaceuticals and Potential Instability Issues. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2013-2019. | 1.6 | 75 |

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| 37 | New Insights into the Reaction Paths of 4-Carboxybenzophenone Triplet with Oligopeptides Containing N- and C-Terminal Methionine Residues. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5247-5258. | 1.2 | 12 |
| 38 | Structure-Based Correlation of Light-Induced Histidine Reactivity in A Model Protein. <i>Analytical Chemistry</i> , 2017, 89, 7225-7231. | 3.2 | 14 |
| 39 | Photodegradation Pathways of Protein Disulfides: Human Growth Hormone. <i>Pharmaceutical Research</i> , 2017, 34, 2756-2778. | 1.7 | 16 |
| 40 | The Botanical Drug Substance Crofelemer as a Model System for Comparative Characterization of Complex Mixture Drugs. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3242-3256. | 1.6 | 14 |
| 41 | Comparative Characterization of Crofelemer Samples Using Data Mining and Machine Learning Approaches With Analytical Stability Data Sets. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3270-3279. | 1.6 | 5 |
| 42 | Profiling the Photochemical-Induced Degradation of Rat Growth Hormone with Extreme Ultra-pressure Chromatography-Mass Spectrometry Utilizing Meter-Long Microcapillary Columns Packed with Sub-2-Åm Particles. <i>Chromatographia</i> , 2017, 80, 1299-1318. | 0.7 | 5 |
| 43 | Chemical Stability of the Botanical Drug Substance Crofelemer: A Model System for Comparative Characterization of Complex Mixture Drugs. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3257-3269. | 1.6 | 6 |
| 44 | An Efficient and Rapid Method to Monitor the Oxidative Degradation of Protein Pharmaceuticals: Probing Tyrosine Oxidation with Fluorogenic Derivatization. <i>Pharmaceutical Research</i> , 2017, 34, 1428-1443. | 1.7 | 16 |
| 45 | Photo-oxidation of IgG1 and Model Peptides: Detection and Analysis of Triply Oxidized His and Trp Side Chain Cleavage Products. <i>Pharmaceutical Research</i> , 2017, 34, 229-242. | 1.7 | 29 |
| 46 | Inhibition and conformational change of SERCA3b induced by Bcl-2. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 121-131. | 1.1 | 6 |
| 47 | Sulfur Radical-Induced Redox Modifications in Proteins: Analysis and Mechanistic Aspects. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 388-405. | 2.5 | 25 |
| 48 | Degradation Mechanisms of Polysorbate 20 Differentiated by 18O-labeling and Mass Spectrometry. <i>Pharmaceutical Research</i> , 2017, 34, 84-100. | 1.7 | 48 |
| 49 | Neighboring Ñ-Amide Participation in Thioether Oxidation: Conformational Control. <i>Organic Letters</i> , 2016, 18, 3522-3525. | 2.4 | 4 |
| 50 | A Tribute to Ronald T. BorchardtÑTeacher, Mentor, Scientist, Colleague, Leader, Friend, and Family Man. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 370-385. | 1.6 | 4 |
| 51 | Neighboring amide participation in the Fenton oxidation of a sulfide to sulfoxide, vinyl sulfide and ketone relevant to oxidation of methionine thioether side chains in peptides. <i>Tetrahedron</i> , 2016, 72, 7770-7789. | 1.0 | 1 |
| 52 | Formation of a Three-Electron SulfurÑSulfur Bond as a Probe for Interaction between Side Chains of Methionine Residues. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9732-9744. | 1.2 | 10 |
| 53 | Comparative Evaluation of the Chemical Stability of 4 Well-Defined Immunoglobulin G1-Fc Glycoforms. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 575-587. | 1.6 | 20 |
| 54 | Site-Specific Hydrolysis Reaction C-Terminal of Methionine in Met-His during Metal-Catalyzed Oxidation of IgG-1. <i>Molecular Pharmaceutics</i> , 2016, 13, 1317-1328. | 2.3 | 7 |

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| 55 | Thiyl radicals and induction of protein degradation. <i>Free Radical Research</i> , 2016, 50, 143-149. | 1.5 | 58 |
| 56 | Do Not Drop: Mechanical Shock in Vials Causes Cavitation, Protein Aggregation, and Particle Formation. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 602-611. | 1.6 | 86 |
| 57 | Using Lysine-Reactive Fluorescent Dye for Surface Characterization of a mAb. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 995-1004. | 1.6 | 4 |
| 58 | Low-Temperature NMR Characterization of Reaction of Sodium Pyruvate with Hydrogen Peroxide. <i>Journal of Physical Chemistry A</i> , 2015, 119, 966-977. | 1.1 | 26 |
| 59 | Chemical degradation of proteins in the solid state with a focus on photochemical reactions. <i>Advanced Drug Delivery Reviews</i> , 2015, 93, 2-13. | 6.6 | 21 |
| 60 | Photoinduced Aggregation of a Model Antibody-Drug Conjugate. <i>Molecular Pharmaceutics</i> , 2015, 12, 1784-1797. | 2.3 | 25 |
| 61 | Introduction: What we do and do not know regarding redox processes of thiols in signaling pathways. <i>Free Radical Biology and Medicine</i> , 2015, 80, 145-147. | 1.3 | 20 |
| 62 | Protein thiyl radical reactions and product formation: a kinetic simulation. <i>Free Radical Biology and Medicine</i> , 2015, 80, 158-163. | 1.3 | 40 |
| 63 | Sarcoendoplasmic Reticulum Ca ²⁺ ATPase. A Critical Target in Chlorine Inhalation-Induced Cardiotoxicity. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 492-502. | 1.4 | 36 |
| 64 | Oxidation of Proteins in the In Vivo Environment: What We Know; What We Need to Study and Potential Mitigation Strategies. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2015, , 137-151. | 0.2 | 0 |
| 65 | Intramolecular 1,2- and 1,3-Hydrogen Transfer Reactions of Thiyl Radicals. <i>Israel Journal of Chemistry</i> , 2014, 54, 265-271. | 1.0 | 9 |
| 66 | Apoptosis in differentiating C2C12 muscle cells selectively targets Bcl-2-deficient myotubes. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 42-57. | 2.2 | 47 |
| 67 | Oxidation of Therapeutic Proteins and Peptides: Structural and Biological Consequences. <i>Pharmaceutical Research</i> , 2014, 31, 541-553. | 1.7 | 161 |
| 68 | Sequence-Specific Formation of α -Amino Acids in a Monoclonal Antibody during Light Exposure. <i>Molecular Pharmaceutics</i> , 2014, 11, 4291-4297. | 2.3 | 15 |
| 69 | Characterization of Oxidative Carbonylation on Recombinant Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2014, 86, 4799-4806. | 3.2 | 26 |
| 70 | Effect of Conformation on the Photodegradation of Trp- And Cystine-Containing Cyclic Peptides: Octreotide and Somatostatin. <i>Molecular Pharmaceutics</i> , 2014, 11, 3537-3546. | 2.3 | 19 |
| 71 | UV photodegradation of murine growth hormone: Chemical analysis and immunogenicity consequences. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 395-402. | 2.0 | 25 |
| 72 | The Photolysis of Disulfide Bonds in IgG1 and IgG2 Leads to Selective Intramolecular Hydrogen Transfer Reactions of Cysteine Thiyl Radicals, Probed by Covalent H/D Exchange and RPLC-MS/MS analysis. <i>Pharmaceutical Research</i> , 2013, 30, 1291-1299. | 1.7 | 22 |

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| 73 | Fluorogenic Tagging Methodology Applied to Characterize Oxidized Tyrosine and Phenylalanine in an Immunoglobulin Monoclonal Antibody. <i>Pharmaceutical Research</i> , 2013, 30, 1311-1327. | 1.7 | 8 |
| 74 | Role of Surface Exposed Tryptophan as Substrate Generators for the Antibody Catalyzed Water Oxidation Pathway. <i>Molecular Pharmaceutics</i> , 2013, 10, 278-288. | 2.3 | 50 |
| 75 | Metal-Catalyzed Oxidation of Protein Methionine Residues in Human Parathyroid Hormone (1-34): Formation of Homocysteine and a Novel Methionine-Dependent Hydrolysis Reaction. <i>Molecular Pharmaceutics</i> , 2013, 10, 739-755. | 2.3 | 26 |
| 76 | Photodegradation of Human Growth Hormone: A Novel Backbone Cleavage between Glu-88 and Pro-89. <i>Molecular Pharmaceutics</i> , 2013, 10, 2693-2706. | 2.3 | 6 |
| 77 | Proteomic Approaches to Analyze Protein Tyrosine Nitration. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1247-1256. | 2.5 | 23 |
| 78 | Identification of Oxidation Sites and Covalent Cross-Links in Metal Catalyzed Oxidized Interferon Beta-1a: Potential Implications for Protein Aggregation and Immunogenicity. <i>Molecular Pharmaceutics</i> , 2013, 10, 2311-2322. | 2.3 | 39 |
| 79 | Light-Induced Conversion of Trp to Gly and Gly Hydroperoxide in IgG1. <i>Molecular Pharmaceutics</i> , 2013, 10, 1146-1150. | 2.3 | 39 |
| 80 | Heat-shock proteins attenuate SERCA inactivation by the anti-apoptotic protein Bcl-2: possible implications for the ER Ca ²⁺ -mediated apoptosis. <i>Biochemical Journal</i> , 2012, 444, 127-139. | 1.7 | 28 |
| 81 | Biotherapeutic Formulation Factors Affecting Metal Leachables from Stainless Steel Studied by Design of Experiments. <i>AAPS PharmSciTech</i> , 2012, 13, 284-294. | 1.5 | 25 |
| 82 | Fluorogenic tagging of protein 3-nitrotyrosine with 4-(aminomethyl)benzene sulfonate in tissues: A useful alternative to Immunohistochemistry for fluorescence microscopy imaging of protein nitration. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1877-1885. | 1.3 | 18 |
| 83 | Oxidation of Human Growth Hormone by Oxygen-Centered Radicals: Formation of Leu-101 Hydroperoxide and Tyr-103 Oxidation Products. <i>Molecular Pharmaceutics</i> , 2012, 9, 803-814. | 2.3 | 30 |
| 84 | Intramolecular Hydrogen Transfer Reactions of Thiyl Radicals from Glutathione: Formation of Carbon-Centered Radical at Glu, Cys, and Gly. <i>Chemical Research in Toxicology</i> , 2012, 25, 1842-1861. | 1.7 | 28 |
| 85 | Reversible Hydrogen Transfer Reactions in Thiyl Radicals From Cysteine and Related Molecules: Absolute Kinetics and Equilibrium Constants Determined by Pulse Radiolysis. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5329-5341. | 1.2 | 47 |
| 86 | Effect of pH and Light on Aggregation and Conformation of an IgG1 mAb. <i>Molecular Pharmaceutics</i> , 2012, 9, 774-790. | 2.3 | 49 |
| 87 | Tyrosine Modifications in Aging. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1571-1579. | 2.5 | 73 |
| 88 | Photodegradation of Oxytocin and Thermal Stability of Photoproducts. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 3331-3346. | 1.6 | 12 |
| 89 | Chemical Modifications in Aggregates of Recombinant Human Insulin Induced by Metal-Catalyzed Oxidation: Covalent Cross-Linking via Michael Addition to Tyrosine Oxidation Products. <i>Pharmaceutical Research</i> , 2012, 29, 2276-2293. | 1.7 | 46 |
| 90 | Myeloperoxidase-derived oxidants inhibit sarco/endoplasmic reticulum Ca ²⁺ -ATPase activity and perturb Ca ²⁺ homeostasis in human coronary artery endothelial cells. <i>Free Radical Biology and Medicine</i> , 2012, 52, 951-961. | 1.3 | 42 |

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| 91 | Protein Instability and Immunogenicity: Roadblocks to Clinical Application of Injectable Protein Delivery Systems for Sustained Release. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 946-954. | 1.6 | 205 |
| 92 | Photolysis of Recombinant Human Insulin in the Solid State: Formation of a Dithiohemiacetal Product at the C-Terminal Disulfide Bond. <i>Pharmaceutical Research</i> , 2012, 29, 121-133. | 1.7 | 15 |
| 93 | Reversible Hydrogen Transfer Reactions of Cysteine Thiyl Radicals in Peptides: the Conversion of Cysteine into Dehydroalanine and Alanine, and of Alanine into Dehydroalanine. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12287-12305. | 1.2 | 34 |
| 94 | Neighboring Pyrrolidine Amide Participation in Thioether Oxidation. Methionine as a "Hopping" Site. <i>Organic Letters</i> , 2011, 13, 2837-2839. | 2.4 | 23 |
| 95 | Cysteine residues as catalysts for covalent peptide and protein modification: a role for thiyl radicals?. <i>Biochemical Society Transactions</i> , 2011, 39, 1254-1259. | 1.6 | 16 |
| 96 | Biologics Formulation Factors Affecting Metal Leachables from Stainless Steel. <i>AAPS PharmSciTech</i> , 2011, 12, 411-421. | 1.5 | 47 |
| 97 | A methodology for simultaneous fluorogenic derivatization and boronate affinity enrichment of 3-nitrotyrosine-containing peptides. <i>Analytical Biochemistry</i> , 2011, 418, 184-196. | 1.1 | 29 |
| 98 | Modeling of the ribonucleotide reductases substrate reaction. Hydrogen atom abstraction by a thiyl free radical and detection of the ribosyl-based carbon radical by pulse radiolysis. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 1223-1238. | 1.0 | 6 |
| 99 | Fluorogenic Tagging of Peptide and Protein 3-Nitrotyrosine with 4-(Aminomethyl)benzenesulfonic Acid for Quantitative Analysis of Protein Tyrosine Nitration. <i>Chromatographia</i> , 2010, 71, 37-53. | 0.7 | 28 |
| 100 | Comparative Evaluation of Disodium Edetate and Diethylenetriaminepentaacetic Acid as Iron Chelators to Prevent Metal-Catalyzed Destabilization of a Therapeutic Monoclonal Antibody. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 4239-4250. | 1.6 | 53 |
| 101 | Photolysis of an Intrachain Peptide Disulfide Bond: Primary and Secondary Processes, Formation of H ₂ S, and Hydrogen Transfer Reactions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3668-3688. | 1.2 | 43 |
| 102 | Reversible Hydrogen Transfer between Cysteine Thiyl Radical and Glycine and Alanine in Model Peptides: Covalent H/D Exchange, Radical-Radical Reactions, and l- to d-Ala Conversion. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6751-6762. | 1.2 | 33 |
| 103 | Exposure of a Monoclonal Antibody, IgG1, to UV-Light Leads to Protein Dithiohemiacetal and Thioether Cross-Links: A Role for Thiyl Radicals?. <i>Chemical Research in Toxicology</i> , 2010, 23, 1310-1312. | 1.7 | 38 |
| 104 | Bcl-2 Suppresses Sarcoplasmic/Endoplasmic Reticulum Ca ²⁺ -ATPase Expression in Cystic Fibrosis Airways. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 179, 816-826. | 2.5 | 28 |
| 105 | Factor analysis of transient spectra. Free radicals in cyclic dipeptides containing methionine. <i>Research on Chemical Intermediates</i> , 2009, 35, 431-442. | 1.3 | 5 |
| 106 | Neighboring Amide Participation in Thioether Oxidation: Relevance to Biological Oxidation. <i>Journal of the American Chemical Society</i> , 2009, 131, 13791-13805. | 6.6 | 47 |
| 107 | Intramolecular Addition of Cysteine Thiyl Radical to Phenylalanine and Tyrosine in Model Peptides, Phe (CysS ⁺) and Tyr(CysS ⁺): A Computational Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3560-3565. | 1.1 | 11 |
| 108 | Inactivation of rabbit muscle glycogen phosphorylase b by peroxynitrite revisited: Does the nitration of Tyr613 in the allosteric inhibition site control enzymatic function?. <i>Archives of Biochemistry and Biophysics</i> , 2009, 484, 155-166. | 1.4 | 16 |

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| 109 | Synthesis of sulfonamide- and sulfonyl-phenylboronic acid-modified silica phases for boronate affinity chromatography at physiological pH. <i>Analytical Biochemistry</i> , 2008, 372, 227-236. | 1.1 | 62 |
| 110 | Phenylisothiocyanate as a Multiple Chemical Dimension Reagent for the Relative Quantitation of Protein Nitrotyrosine. <i>Chromatographia</i> , 2008, 68, 507-516. | 0.7 | 7 |
| 111 | Cysteine-674 oxidation and degradation of sarcoplasmic reticulum Ca ²⁺ ATPase in diabetic pig aorta. <i>Free Radical Biology and Medicine</i> , 2008, 45, 756-762. | 1.3 | 60 |
| 112 | Peptide Cysteine Thiyl Radicals Abstract Hydrogen Atoms from Surrounding Amino Acids: The Photolysis of a Cystine Containing Model Peptide. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9250-9257. | 1.2 | 53 |
| 113 | Reversible Intramolecular Hydrogen Transfer between Protein Cysteine Thiyl Radicals and α -C-H Bonds in Insulin: Control of Selectivity by Secondary Structure. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15921-15932. | 1.2 | 40 |
| 114 | Reversible Intramolecular Hydrogen Transfer between Cysteine Thiyl Radicals and Glycine and Alanine in Model Peptides: Absolute Rate Constants Derived from Pulse Radiolysis and Laser Flash Photolysis. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15034-15044. | 1.2 | 69 |
| 115 | Mechanisms of Protein Damage Induced by Cysteine Thiyl Radical Formation. <i>Chemical Research in Toxicology</i> , 2008, 21, 1175-1179. | 1.7 | 82 |
| 116 | Selective Fluorogenic Derivatization of 3-Nitrotyrosine and 3,4-Dihydroxyphenylalanine in Peptides: A Method Designed for Quantitative Proteomic Analysis. <i>Methods in Enzymology</i> , 2008, 441, 19-32. | 0.4 | 19 |
| 117 | Chapter 6 Oxidative Modification of Ca ²⁺ Channels, Ryanodine Receptors, and the Sarco/Endoplasmic Reticulum Ca ²⁺ -ATPase. <i>Current Topics in Membranes</i> , 2008, 61, 113-130. | 0.5 | 0 |
| 118 | SOD1 mutations disrupt redox-sensitive Rac regulation of NADPH oxidase in a familial ALS model. <i>Journal of Clinical Investigation</i> , 2008, 118, 659-70. | 3.9 | 282 |
| 119 | Proteomic approach to aging research. <i>Expert Review of Proteomics</i> , 2007, 4, 309-321. | 1.3 | 13 |
| 120 | Oxidation and Inactivation of SERCA by Selective Reaction of Cysteine Residues with Amino Acid Peroxides. <i>Chemical Research in Toxicology</i> , 2007, 20, 1462-1469. | 1.7 | 58 |
| 121 | Reactions of Halogenated Hydroperoxides and Peroxyl and Alkoxy Radicals from Isoflurane in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11618-11625. | 1.1 | 7 |
| 122 | Stabilization of Sulfide Radical Cations through Complexation with the Peptide Bond: Mechanisms Relevant to Oxidation of Proteins Containing Multiple Methionine Residues. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9608-9620. | 1.2 | 67 |
| 123 | Sulfur Radical Cation~Peptide Bond Complex in the One-Electron Oxidation of S-Methylglutathione. <i>Journal of the American Chemical Society</i> , 2007, 129, 9236-9245. | 6.6 | 59 |
| 124 | Selective oxidation of Zn ²⁺ ~insulin catalyzed by Cu ²⁺ . <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1844-1847. | 1.6 | 5 |
| 125 | Proteomic analysis of protein nitration in rat cerebellum: effect of biological aging. <i>Journal of Neurochemistry</i> , 2007, 100, 070209222715009-??? | 2.1 | 45 |
| 126 | Proteomic analysis of age dependent nitration of rat cardiac proteins by solution isoelectric focusing coupled to nanoHPLC tandem mass spectrometry. <i>Experimental Gerontology</i> , 2007, 42, 639-651. | 1.2 | 38 |

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| 127 | Age-dependent oxidation and aggregation of ZnT-1: A role for metal catalyzed oxidation?. <i>Experimental Gerontology</i> , 2007, 42, 1130-1136. | 1.2 | 2 |
| 128 | Selective Fluorogenic Derivatization with Isotopic Coding of Catechols and 2-Amino Phenols with Benzylamine: A Chemical Basis for the Relative Determination of 3-Hydroxy-tyrosine and 3-Nitro-tyrosine Peptides. <i>Chromatographia</i> , 2007, 66, 649-659. | 0.7 | 10 |
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