

Olivier Mozziconacci

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Peptide Cysteine Thiyl Radicals Abstract Hydrogen Atoms from Surrounding Amino Acids: The Photolysis of a Cysteine Containing Model Peptide. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9250-9257.	2.6	53
2	Degradation Mechanisms of Polysorbate 20 Differentiated by 18O-labeling and Mass Spectrometry. <i>Pharmaceutical Research</i> , 2017, 34, 84-100.	3.5	48
3	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.	2.6	43
4	Reversible Intramolecular Hydrogen Transfer between Protein Cysteine Thiyl Radicals and C-H Bonds in Insulin: Control of Selectivity by Secondary Structure. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15921-15932.	2.6	40
5	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.	3.3	38
6	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.	2.6	34
7	Reversible Hydrogen Transfer between Cysteine Thiyl Radical and Glycine and Alanine in Model Peptides: Covalent H/D Exchange, Radical-Radical Reactions, and I ⁻ to d ⁻ -Ala Conversion. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6751-6762.	2.6	33
8	Dual Effect of Histidine on Polysorbate 20 Stability: Mechanistic Studies. <i>Pharmaceutical Research</i> , 2018, 35, 33.	3.5	31
9	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.	3.5	29
10	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.	3.3	28
11	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.	4.6	26
12	UV photodegradation of murine growth hormone: Chemical analysis and immunogenicity consequences. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 395-402.	4.3	25
13	Chemical degradation of proteins in the solid state with a focus on photochemical reactions. <i>Advanced Drug Delivery Reviews</i> , 2015, 93, 2-13.	13.7	21
14	Comparative Evaluation of the Chemical Stability of 4 Well-Defined Immunoglobulin G1-Fc Glycoforms. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 575-587.	3.3	20
15	Effect of Conformation on the Photodegradation of Trp- And Cystine-Containing Cyclic Peptides: Octreotide and Somatostatin. <i>Molecular Pharmaceutics</i> , 2014, 11, 3537-3546.	4.6	19
16	Photodegradation Pathways of Protein Disulfides: Human Growth Hormone. <i>Pharmaceutical Research</i> , 2017, 34, 2756-2778.	3.5	16
17	An Efficient and Rapid Method to Monitor the Oxidative Degradation of Protein Pharmaceutics: Probing Tyrosine Oxidation with Fluorogenic Derivatization. <i>Pharmaceutical Research</i> , 2017, 34, 1428-1443.	3.5	16
18	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.	3.5	15

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19	Sequence-Specific Formation of α -Amino Acids in a Monoclonal Antibody during Light Exposure. <i>Molecular Pharmaceutics</i> , 2014, 11, 4291-4297.	4.6	15
20	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.	3.3	14
21	Photodegradation of Oxytocin and Thermal Stability of Photoproducts. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 3331-3346.	3.3	12
22	Intramolecular 1,2- and 1,3-Hydrogen Transfer Reactions of Thiyl Radicals. <i>Israel Journal of Chemistry</i> , 2014, 54, 265-271.	2.3	9
23	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.	4.6	7
24	Fragmentation of a Monoclonal Antibody by Peroxotungstate. <i>Pharmaceutical Research</i> , 2018, 35, 219.	3.5	7
25	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.	3.3	6
26	Multi-dimensional plug-and-play liquid chromatography-native ion mobility mass spectrometry method for the analysis of biotherapeutics. <i>International Journal of Mass Spectrometry</i> , 2022, 471, 116725.	1.5	6
27	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- μ m Particles. <i>Chromatographia</i> , 2017, 80, 1299-1318.	1.3	5
28	Neighboring α -Amide Participation in Thioether Oxidation: Conformational Control. <i>Organic Letters</i> , 2016, 18, 3522-3525.	4.6	4
29	Identification of D-Amino Acids in Light Exposed mAb Formulations. <i>Pharmaceutical Research</i> , 2018, 35, 238.	3.5	3
30	Probing Protein Conformation Destabilization in Sterile Liquid Formulations through the Formation of 3,4-Dihydroxyphenylalanine. <i>Molecular Pharmaceutics</i> , 2020, 17, 3783-3793.	4.6	2