

# Koji Uchida

## List of Publications by Citations

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352  
papers

21,623  
citations

76  
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134  
g-index

361  
ext. papers

23,284  
ext. citations

5.1  
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6.66  
L-index

#	Paper	IF	Citations
352	4-Hydroxy-2-nonenal: a product and mediator of oxidative stress. <i>Progress in Lipid Research</i> , <b>2003</b> , 42, 318-43	14.3	879
351	Oxidative and electrophilic stresses activate Nrf2 through inhibition of ubiquitination activity of Keap1. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 221-9	4.8	666
350	A role for 4-hydroxynonenal, an aldehydic product of lipid peroxidation, in disruption of ion homeostasis and neuronal death induced by amyloid beta-peptide. <i>Journal of Neurochemistry</i> , <b>1997</b> , 68, 255-64	6	591
349	Dietary cyanidin 3-O-beta-D-glucoside-rich purple corn color prevents obesity and ameliorates hyperglycemia in mice. <i>Journal of Nutrition</i> , <b>2003</b> , 133, 2125-30	4.1	585
348	Mitochondrial electron transport complex I is a potential source of oxygen free radicals in the failing myocardium. <i>Circulation Research</i> , <b>1999</b> , 85, 357-63	15.7	561
347	Amyloid beta-peptide impairs glucose transport in hippocampal and cortical neurons: involvement of membrane lipid peroxidation. <i>Journal of Neuroscience</i> , <b>1997</b> , 17, 1046-54	6.6	483
346	Role of reactive aldehyde in cardiovascular diseases. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 28, 1685-96	7.8	475
345	Activation of stress signaling pathways by the end product of lipid peroxidation. 4-hydroxy-2-nonenal is a potential inducer of intracellular peroxide production. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 2234-42	5.4	461
344	Acrolein is a product of lipid peroxidation reaction. Formation of free acrolein and its conjugate with lysine residues in oxidized low density lipoproteins. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 16058-66	5.4	417
343	Transcription factor Nrf2 regulates inflammation by mediating the effect of 15-deoxy-Delta(12,14)-prostaglandin j(2). <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 36-45	4.8	349
342	Long-Term Administration of Nicotinamide Mononucleotide Mitigates Age-Associated Physiological Decline in Mice. <i>Cell Metabolism</i> , <b>2016</b> , 24, 795-806	24.6	335
341	15-deoxy-delta 12,14-prostaglandin J2. A prostaglandin D2 metabolite generated during inflammatory processes. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 10459-66	5.4	322
340	Protein-bound acrolein: a novel marker of oxidative stress in Alzheimer's disease. <i>Journal of Neurochemistry</i> , <b>1999</b> , 72, 751-6	6	310
339	Methylglyoxal modification of protein. Chemical and immunochemical characterization of methylglyoxal-arginine adducts. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 18492-502	5.4	274
338	4-Hydroxy-2-nonenal-mediated impairment of intracellular proteolysis during oxidative stress. Identification of proteasomes as target molecules. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 23787-93	5.4	267
337	Macrophage as a target of quercetin glucuronides in human atherosclerotic arteries: implication in the anti-atherosclerotic mechanism of dietary flavonoids. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 9424-34	5.4	231
336	Current status of acrolein as a lipid peroxidation product. <i>Trends in Cardiovascular Medicine</i> , <b>1999</b> , 9, 1096-13	6.3	230

335	Michael addition-type 4-hydroxy-2-nonenal adducts in modified low-density lipoproteins: markers for atherosclerosis. <i>Biochemistry</i> , <b>1994</b> , 33, 12487-94	3.2	225
334	Hydrogen sulfide anion regulates redox signaling via electrophile sulfhydration. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 714-24	11.7	220
333	Oxidative and nitrosative stress in acute renal ischemia. <i>American Journal of Physiology - Renal Physiology</i> , <b>2001</b> , 281, F948-F957	4.3	217
332	A sulforaphane analogue that potently activates the Nrf2-dependent detoxification pathway. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 3456-63	5.4	207
331	Biomarker evidence of DNA oxidation in lung cancer patients: association of urinary 8-hydroxy-2Rdeoxyguanosine excretion with radiotherapy, chemotherapy, and response to treatment. <i>FEBS Letters</i> , <b>1997</b> , 409, 287-91	3.8	198
330	Imidazole Ketone Erastin Induces Ferroptosis and Slows Tumor Growth in a Mouse Lymphoma Model. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 623-633.e9	8.2	185
329	Molecular characterization of TRPA1 channel activation by cysteine-reactive inflammatory mediators. <i>Channels</i> , <b>2008</b> , 2, 287-98	3	184
328	Immunohistochemical evidence for an increased oxidative stress and carbonyl modification of proteins in diabetic glomerular lesions. <i>Journal of the American Society of Nephrology: JASN</i> , <b>1999</b> , 10, 822-32	12.7	178
327	Differential responses of the Nrf2-Keap1 system to laminar and oscillatory shear stresses in endothelial cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 27244-50	5.4	175
326	Curcumin and especially tetrahydrocurcumin ameliorate oxidative stress-induced renal injury in mice. <i>Journal of Nutrition</i> , <b>2001</b> , 131, 2090-5	4.1	172
325	Cyclopentenone prostaglandins as potential inducers of intracellular oxidative stress. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 12076-83	5.4	171
324	Morphological evidence for lipid peroxidation and protein glycoxidation in spinal cords from sporadic amyotrophic lateral sclerosis patients. <i>Brain Research</i> , <b>2001</b> , 917, 97-104	3.7	170
323	Formation of 8-hydroxy-2Rdeoxyguanosine and 4-hydroxy-2-nonenal-modified proteins in human renal-cell carcinoma. <i>International Journal of Cancer</i> , <b>1994</b> , 58, 825-9	7.5	159
322	8-hydroxy-2Rdeoxyguanosine is increased in epidermal cells of hairless mice after chronic ultraviolet B exposure. <i>Journal of Investigative Dermatology</i> , <b>1996</b> , 107, 733-7	4.3	158
321	15-Deoxy-Delta(12,14)-prostaglandin J(2): the endogenous electrophile that induces neuronal apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 7367-72	11.5	157
320	Oxidative modification of proteasome: identification of an oxidation-sensitive subunit in 26 S proteasome. <i>Biochemistry</i> , <b>2005</b> , 44, 13893-901	3.2	156
319	4-Hydroxynonenal, a product of lipid peroxidation, inhibits dephosphorylation of the microtubule-associated protein tau. <i>NeuroReport</i> , <b>1997</b> , 8, 2275-81	1.7	154
318	The monoclonal antibody specific for the 4-hydroxy-2-nonenal histidine adduct. <i>FEBS Letters</i> , <b>1995</b> , 359, 189-91	3.8	151

317	Zerumbone, a tropical ginger sesquiterpene, activates phase II drug metabolizing enzymes. <i>FEBS Letters</i> , <b>2004</b> , 572, 245-50	3.8	140
316	Thioredoxin as a molecular target of cyclopentenone prostaglandins. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 26046-54	5.4	136
315	Histochemical detection of 4-hydroxynonenal protein in Alzheimer amyloid. <i>Journal of the Neurological Sciences</i> , <b>1998</b> , 156, 172-6	3.2	136
314	Involvement of the mitochondrial death pathway in chemopreventive benzyl isothiocyanate-induced apoptosis. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 8492-9	5.4	133
313	Characterization of epitopes recognized by 4-hydroxy-2-nonenal specific antibodies. <i>Archives of Biochemistry and Biophysics</i> , <b>1995</b> , 324, 241-8	4.1	132
312	Transferrin Receptor Is a Specific Ferroptosis Marker. <i>Cell Reports</i> , <b>2020</b> , 30, 3411-3423.e7	10.6	126
311	15-Deoxy-Delta(12,14)-prostaglandin J2: an electrophilic trigger of cellular responses. <i>Chemical Research in Toxicology</i> , <b>2008</b> , 21, 138-44	4	126
310	A link between benzyl isothiocyanate-induced cell cycle arrest and apoptosis: involvement of mitogen-activated protein kinases in the Bcl-2 phosphorylation. <i>Cancer Research</i> , <b>2004</b> , 64, 2134-42	10.1	123
309	Ebselen, a seleno-organic antioxidant, as an electrophile. <i>Chemical Research in Toxicology</i> , <b>2006</b> , 19, 1196-204	4.204	121
308	Aggregation of collagen exposed to UVA in the presence of riboflavin: a plausible role of tyrosine modification. <i>Photochemistry and Photobiology</i> , <b>1994</b> , 59, 343-9	3.6	116
307	A lipid peroxidation-derived inflammatory mediator: identification of 4-hydroxy-2-nonenal as a potential inducer of cyclooxygenase-2 in macrophages. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 48389-96	5.4	114
306	Ebselen, a glutathione peroxidase mimetic seleno-organic compound, as a multifunctional antioxidant. Implication for inflammation-associated carcinogenesis. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 2687-94	5.4	114
305	2-Oxo-histidine as a novel biological marker for oxidatively modified proteins. <i>FEBS Letters</i> , <b>1993</b> , 332, 208-10	3.8	113
304	Oxidative stress is found in amyloid deposits in systemic amyloidosis. <i>Biochemical and Biophysical Research Communications</i> , <b>1997</b> , 232, 497-502	3.4	112
303	A novel mechanism for oxidative cleavage of prolyl peptides induced by the hydroxyl radical. <i>Biochemical and Biophysical Research Communications</i> , <b>1990</b> , 169, 265-71	3.4	110
302	Protein modification by lipid peroxidation products: formation of malondialdehyde-derived N(epsilon)-(2-propenol)lysine in proteins. <i>Archives of Biochemistry and Biophysics</i> , <b>1997</b> , 346, 45-52	4.1	108
301	Molecular basis of enzyme inactivation by an endogenous electrophile 4-hydroxy-2-nonenal: identification of modification sites in glyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , <b>2003</b> , 42, 3474-80	3.2	105
300	Oxidative stress is associated with region-specific neuronal death during thiamine deficiency. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>1999</b> , 58, 946-58	3.1	105

299	Generation of protein carbonyls by glycooxidation and lipoxidation reactions with autoxidation products of ascorbic acid and polyunsaturated fatty acids. <i>FEBS Letters</i> , <b>1998</b> , 437, 24-8	3.8	102
298	Role of 15-deoxy delta(12,14) prostaglandin J2 and Nrf2 pathways in protection against acute lung injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2005</b> , 171, 1260-6	10.2	101
297	Advanced glycation and lipoxidation of the peritoneal membrane: respective roles of serum and peritoneal fluid reactive carbonyl compounds. <i>Kidney International</i> , <b>2000</b> , 58, 425-35	9.9	96
296	Acrolein impairs ATP binding cassette transporter A1-dependent cholesterol export from cells through site-specific modification of apolipoprotein A-I. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 36386-96	5.4	93
295	Molecular Mechanism of Cellular Oxidative Stress Sensing by Keap1. <i>Cell Reports</i> , <b>2019</b> , 28, 746-758.e4	10.6	92
294	N(epsilon)-(3-methylpyridinium)lysine, a major antigenic adduct generated in acrolein-modified protein. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 48658-65	5.4	91
293	Black tea polyphenols, theaflavins, prevent cellular DNA damage by inhibiting oxidative stress and suppressing cytochrome P450 1A1 in cell cultures. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 213-20	5.7	91
292	Thiolation of protein-bound carcinogenic aldehyde. An electrophilic acrolein-lysine adduct that covalently binds to thiols. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 27919-26	5.4	89
291	Albumin is the main nucleophilic target of human plasma: a protective role against pro-atherogenic electrophilic reactive carbonyl species?. <i>Chemical Research in Toxicology</i> , <b>2008</b> , 21, 824-35	4	88
290	Chemical knockdown of protein-tyrosine phosphatase 1B by 1,2-naphthoquinone through covalent modification causes persistent transactivation of epidermal growth factor receptor. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 33396-33404	5.4	87
289	Endogenous formation of protein adducts with carcinogenic aldehydes: implications for oxidative stress. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 23903-13	5.4	87
288	4-hydroxy-2-nonenal, the end product of lipid peroxidation, is a specific inducer of cyclooxygenase-2 gene expression. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 273, 437-41	3.4	86
287	Cyclopentenone prostaglandins as potential inducers of phase II detoxification enzymes. 15-deoxy-delta(12,14)-prostaglandin j2-induced expression of glutathione S-transferases. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 11291-9	5.4	84
286	Critical role of acrolein in secondary injury following ex vivo spinal cord trauma. <i>Journal of Neurochemistry</i> , <b>2008</b> , 107, 712-21	6	83
285	Dietary ginger constituents, galanals A and B, are potent apoptosis inducers in Human T lymphoma Jurkat cells. <i>Cancer Letters</i> , <b>2003</b> , 199, 113-9	9.9	83
284	Accumulation of acrolein-protein adducts after traumatic spinal cord injury. <i>Neurochemical Research</i> , <b>2005</b> , 30, 291-5	4.6	83
283	Serum 4-hydroxy-2-nonenal-modified albumin is elevated in patients with type 2 diabetes mellitus. <i>Antioxidants and Redox Signaling</i> , <b>2000</b> , 2, 681-5	8.4	82
282	Isothiocyanates reduce mercury accumulation via an Nrf2-dependent mechanism during exposure of mice to methylmercury. <i>Environmental Health Perspectives</i> , <b>2011</b> , 119, 1117-22	8.4	81

281	Protein modification by a Maillard reaction intermediate methylglyoxal. Immunochemical detection of fluorescent 5-methylimidazolone derivatives in vivo. <i>FEBS Letters</i> , <b>1997</b> , 410, 313-8	3.8	80
280	Successful interferon therapy reverses enhanced hepatic iron accumulation and lipid peroxidation in chronic hepatitis C. <i>American Journal of Gastroenterology</i> , <b>2000</b> , 95, 1041-50	0.7	80
279	Coat assembly directs v-SNARE concentration into synthetic COPII vesicles. <i>Molecular Cell</i> , <b>1998</b> , 2, 703-8	7.6	78
278	Bilirubin rinse: A simple protectant against the rat liver graft injury mimicking heme oxygenase-1 preconditioning. <i>Hepatology</i> , <b>2003</b> , 38, 364-73	11.2	77
277	Carbonyl scavenger and antiatherogenic effects of hydrazine derivatives. <i>Free Radical Biology and Medicine</i> , <b>2008</b> , 45, 1457-67	7.8	76
276	Cellular response to the redox active lipid peroxidation products: induction of glutathione S-transferase P by 4-hydroxy-2-nonenal. <i>Biochemical and Biophysical Research Communications</i> , <b>1997</b> , 236, 505-9	3.4	75
275	Methylglyoxal, a glycolysis side-product, induces Hsp90 glycation and YAP-mediated tumor growth and metastasis. <i>ELife</i> , <b>2016</b> , 5,	8.9	75
274	A 1-hour enzyme-linked immunosorbent assay for quantitation of acrolein- and hydroxynonenal-modified proteins by epitope-bound casein matrix method. <i>Analytical Biochemistry</i> , <b>1999</b> , 270, 323-8	3.1	74
273	Mode of action of sesame lignans in protecting low-density lipoprotein against oxidative damage in vitro. <i>Life Sciences</i> , <b>2000</b> , 66, 161-71	6.8	74
272	Immunochemical detection of a lipofuscin-like fluorophore derived from malondialdehyde and lysine. <i>Journal of Lipid Research</i> , <b>2001</b> , 42, 1187-1196	6.3	71
271	Induction of a wide range of C(2-12) aldehydes and C(7-12) acylolins in the kidney of Wistar rats after treatment with a renal carcinogen, ferric nitrilotriacetate. <i>Free Radical Biology and Medicine</i> , <b>1997</b> , 22, 1019-27	7.8	70
270	Identification of actin as a 15-deoxy-Delta12,14-prostaglandin J2 target in neuroblastoma cells: mass spectrometric, computational, and functional approaches to investigate the effect on cytoskeletal derangement. <i>Biochemistry</i> , <b>2007</b> , 46, 2707-18	3.2	70
269	Sequence-dependent reactivity of histidine-containing peptides with copper(II)/ascorbate. <i>Journal of Agricultural and Food Chemistry</i> , <b>1992</b> , 40, 13-16	5.7	70
268	Immunohistochemical detection of lipid peroxidation products, protein-bound acrolein and 4-hydroxynonenal protein adducts, in actinic elastosis of photodamaged skin. <i>Archives of Dermatological Research</i> , <b>2001</b> , 293, 363-7	3.3	69
267	GLO1 overexpression in human malignant melanoma. <i>Melanoma Research</i> , <b>2010</b> , 20, 85-96	3.3	68
266	Heat-shock protein 27 is a major methylglyoxal-modified protein in endothelial cells. <i>FEBS Letters</i> , <b>2006</b> , 580, 1565-70	3.8	65
265	Structural basis of protein-bound endogenous aldehydes. Chemical and immunochemical characterizations of configurational isomers of a 4-hydroxy-2-nonenal-histidine adduct. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 5044-51	5.4	65
264	Selective oxidation of imidazole ring in histidine residues by the ascorbic acid-copper ion system. <i>Biochemical and Biophysical Research Communications</i> , <b>1986</b> , 138, 659-65	3.4	65

263	A phase II detoxification enzyme inducer from lemongrass: identification of citral and involvement of electrophilic reaction in the enzyme induction. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 302, 593-600	3.4	64
262	Anticarcinogenic antioxidants as inhibitors against intracellular oxidative stress. <i>Free Radical Research</i> , <b>2001</b> , 35, 779-88	4	63
261	Protein-bound 4-hydroxy-2-hexenal as a marker of oxidized n-3 polyunsaturated fatty acids. <i>Journal of Lipid Research</i> , <b>2004</b> , 45, 626-34	6.3	62
260	Pivotal role of electrophilicity in glutathione S-transferase induction by tert-butylhydroquinone. <i>Biochemistry</i> , <b>2003</b> , 42, 4300-9	3.2	61
259	Site-specific oxidation of angiotensin I by copper(II) and L-ascorbate: conversion of histidine residues to 2-imidazolones. <i>Archives of Biochemistry and Biophysics</i> , <b>1990</b> , 283, 20-6	4.1	61
258	Desensitization of platelet-derived growth factor receptor-beta by oxidized lipids in vascular cells and atherosclerotic lesions: prevention by aldehyde scavengers. <i>Circulation Research</i> , <b>2006</b> , 98, 785-92	15.7	59
257	Formation of acrolein-derived 2Rdeoxyadenosine adduct in an iron-induced carcinogenesis model. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 50346-54	5.4	56
256	Delta12-prostaglandin J2 as a product and ligand of human serum albumin: formation of an unusual covalent adduct at His146. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 824-32	16.4	55
255	An endogenous electrophile that modulates the regulatory mechanism of protein turnover: inhibitory effects of 15-deoxy-Delta 12,14-prostaglandin J2 on proteasome. <i>Biochemistry</i> , <b>2003</b> , 42, 13960-8	3.2	55
254	Oxidative modification of apolipoprotein E in human very-low-density lipoprotein and its inhibition by glycosaminoglycans. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 367, 1-8	4.1	54
253	New method for the quantitative determination of major protein carbonyls, alpha-aminoaldehydes and gamma-glutamic semialdehydes: investigation of the formation mechanism and chemical nature in vitro and in vivo. <i>Chemical Research in Toxicology</i> , <b>2006</b> , 19, 1059-65	4	53
252	Structure of a Fluorescent Compound Formed from 4-Hydroxy-2-nonenal and N(alpha)-Hippuryllysine: A Model for Fluorophores Derived from Protein Modifications by Lipid Peroxidation. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 185-187	4.2	53
251	Autoxidative degradation of Amadori compounds in the presence of copper ion. <i>Carbohydrate Research</i> , <b>1991</b> , 211, 167-171	2.9	53
250	Expression and function of PPARgamma in rat placental development. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 315, 497-501	3.4	51
249	Lipid peroxidation generates body odor component trans-2-nonenal covalently bound to protein in vivo. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 15302-15313	5.4	50
248	Mass spectroscopic characterization of protein modification by malondialdehyde. <i>Chemical Research in Toxicology</i> , <b>2006</b> , 19, 122-9	4	50
247	Postischemic accumulation of lipid peroxidation products in the rat brain: immunohistochemical detection of 4-hydroxy-2-nonenal modified proteins. <i>Brain Research</i> , <b>1997</b> , 767, 81-6	3.7	49
246	Identification of a lipid peroxidation product as a potential trigger of the p53 pathway. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 1196-204	5.4	49

245	Metal-catalyzed oxidative degradation of collagen. <i>Journal of Agricultural and Food Chemistry</i> , <b>1992</b> , 40, 9-12	5.7	49
244	Endogenous formation of novel halogenated 2Rdeoxycytidine. Hypohalous acid-mediated DNA modification at the site of inflammation. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 51241-9	5.4	48
243	Antiplatelet and anticancer isothiocyanates in Japanese domestic horseradish, wasabi. <i>BioFactors</i> , <b>2000</b> , 13, 271-6	6.1	48
242	Phenolic Antioxidants Prevent Peroxynitrite-Derived Collagen Modification in Vitro. <i>Journal of Agricultural and Food Chemistry</i> , <b>1997</b> , 45, 3004-3009	5.7	47
241	Tissue distribution of lipid peroxidation product acrolein in human colon carcinogenesis. <i>Free Radical Research</i> , <b>2006</b> , 40, 543-52	4	47
240	Induction of reversible cysteine-targeted protein oxidation by an endogenous electrophile 15-deoxy-delta12,14-prostaglandin J2. <i>Chemical Research in Toxicology</i> , <b>2004</b> , 17, 1313-22	4	47
239	Direct exposure of non-equilibrium atmospheric pressure plasma confers simultaneous oxidative and ultraviolet modifications in biomolecules. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2014</b> , 55, 207-15	3.1	46
238	Catechol type polyphenol is a potential modifier of protein sulfhydryls: development and application of a new probe for understanding the dietary polyphenol actions. <i>Chemical Research in Toxicology</i> , <b>2009</b> , 22, 1689-98	4	46
237	Antiplatelet and anticancer isothiocyanates in Japanese domestic horseradish, Wasabi. <i>Mechanisms of Ageing and Development</i> , <b>2000</b> , 116, 125-34	5.6	46
236	2Rdeoxycytidine in free nucleosides and double-stranded DNA as the major target of lipid peroxidation products. <i>Free Radical Biology and Medicine</i> , <b>2004</b> , 36, 529-41	7.8	45
235	Crotonaldehyde accumulates in glial cells of Alzheimer's disease brain. <i>Acta Neuropathologica</i> , <b>2006</b> , 111, 422-9	14.3	44
234	Role of p38 mitogen-activated protein kinase in the 4-hydroxy-2-nonenal-induced cyclooxygenase-2 expression. <i>Archives of Biochemistry and Biophysics</i> , <b>2002</b> , 397, 240-5	4.1	44
233	Oxidative stress response in iron-induced acute nephrotoxicity: enhanced expression of heat shock protein 90. <i>Biochemical and Biophysical Research Communications</i> , <b>1996</b> , 219, 76-81	3.4	44
232	Prevention by 2-mercaptoethane sulfonate and N-acetylcysteine of renal oxidative damage in rats treated with ferric nitrilotriacetate. <i>Japanese Journal of Cancer Research</i> , <b>1996</b> , 87, 882-6		44
231	A novel fluorescent malondialdehyde-lysine adduct. <i>Chemistry and Physics of Lipids</i> , <b>1996</b> , 84, 75-79	3.7	44
230	Oxidative degradation of collagen and its model peptide by ultraviolet irradiation. <i>Journal of Agricultural and Food Chemistry</i> , <b>1992</b> , 40, 373-379	5.7	44
229	Red blood cells inhibit activation-induced cell death and oxidative stress in human peripheral blood T lymphocytes. <i>Blood</i> , <b>2001</b> , 97, 3152-60	2.2	43
228	Structural and functional insights into S-thiolation of human serum albumins. <i>Scientific Reports</i> , <b>2018</b> , 8, 932	4.9	42



227	Formation of Nepsilon-(succinyl)lysine in vivo: a novel marker for docosahexaenoic acid-derived protein modification. <i>Journal of Lipid Research</i> , <b>2006</b> , 47, 1386-98	6.3	42
226	Selective formation of certain advanced glycation end products in spinal cord astrocytes of humans and mice with superoxide dismutase-1 mutation. <i>Acta Neuropathologica</i> , <b>2002</b> , 104, 171-8	14.3	42
225	Acrolein modifies apolipoprotein A-I in the human artery wall. <i>Annals of the New York Academy of Sciences</i> , <b>2005</b> , 1043, 396-403	6.5	42
224	A glutathione S-transferase inducer from papaya: rapid screening, identification and structure-activity relationship of isothiocyanates. <i>Cancer Letters</i> , <b>2000</b> , 157, 193-200	9.9	42
223	Iron-mediated oxidative stress plays an essential role in ferritin-induced cell death. <i>Free Radical Biology and Medicine</i> , <b>2010</b> , 48, 1347-57	7.8	41
222	Contrasting genome-wide distribution of 8-hydroxyguanine and acrolein-modified adenine during oxidative stress-induced renal carcinogenesis. <i>American Journal of Pathology</i> , <b>2006</b> , 169, 1328-42	5.8	41
221	Stereochemical configuration of 4-hydroxy-2-nonenal-cysteine adducts and their stereoselective formation in a redox-regulated protein. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 28810-22	5.4	40
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