

Karlis Briviba

List of Publications by Year in descending order

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115
papers

7,831
citations

36203

51
h-index

49773

87
g-index

116
all docs

116
docs citations

116
times ranked

7462
citing authors

#	ARTICLE	IF	CITATIONS
1	Enrichment of starch-based extruded cereals with chokeberry (<i>Aronia melanocarpa</i>) pomace: Influence of processing conditions on techno-functional and sensory related properties, dietary fibre and polyphenol content as well as in vitro digestibility. <i>LWT - Food Science and Technology</i> , 2022, 154, 112610.	2.5	16
2	Lipophilic compounds, but not fucoxanthin, mediate the genotoxic effect of photoautotrophic grown <i>Phaeodactylum tricornutum</i> in Caco-2 and HT-29 cells. <i>Journal of Functional Foods</i> , 2020, 64, 103671.	1.6	4
3	Coproduction of EPA and Fucoxanthin with <i>P. tricornutum</i> – A Promising Approach for Up- and Downstream Processing. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 1780-1789.	0.4	14
4	Synthesis and in vitro characterization of the genotoxic, mutagenic and cell-transforming potential of nitrosylated heme. <i>Archives of Toxicology</i> , 2020, 94, 3911-3927.	1.9	10
5	Pomegranate (<i>Punica granatum</i> L.) Extract and Its Anthocyanin and Copigment Fractions – Free Radical Scavenging Activity and Influence on Cellular Oxidative Stress. <i>Foods</i> , 2020, 9, 1617.	1.9	17
6	Impact of defined thermomechanical treatment on the structure and content of dietary fiber and the stability and bioaccessibility of polyphenols of chokeberry (<i>Aronia melanocarpa</i>) pomace. <i>Food Research International</i> , 2020, 134, 109232.	2.9	26
7	Photoautotrophically Grown <i>Chlorella vulgaris</i> Shows Genotoxic Potential but No Apoptotic Effect in Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 8668-8676.	2.4	2
8	A Lipophilic Fucoxanthin-Rich <i>Phaeodactylum tricornutum</i> Extract Ameliorates Effects of Diet-Induced Obesity in C57BL/6J Mice. <i>Nutrients</i> , 2019, 11, 796.	1.7	44
9	Particle size of milled chokeberry pomace did not influence in vitro cellular absorption and transport efficiencies of anthocyanins, phenolic acids and flavonols. <i>International Journal of Food Sciences and Nutrition</i> , 2019, 70, 932-940.	1.3	8
10	Pressurized extraction of unsaturated fatty acids and carotenoids from wet <i>Chlorella vulgaris</i> and <i>Phaeodactylum tricornutum</i> biomass using subcritical liquids. <i>GCB Bioenergy</i> , 2019, 11, 335-344.	2.5	54
11	UV-C treatment of grape must: Microbial inactivation, toxicological considerations and influence on chemical and sensory properties of white wine. <i>Innovative Food Science and Emerging Technologies</i> , 2019, 52, 291-304.	2.7	24
12	Effect of sonication on bioaccessibility and cellular uptake of carotenoids from preparations of photoautotrophic <i>Phaeodactylum tricornutum</i> . <i>Food Research International</i> , 2019, 118, 40-48.	2.9	23
13	Anti-inflammatory effects of <i>Phaeodactylum tricornutum</i> extracts on human blood mononuclear cells and murine macrophages. <i>Journal of Applied Phycology</i> , 2018, 30, 2837-2846.	1.5	31
14	Dephosphorylation of myo-inositol phosphates in the in vitro intestinal Caco-2 cell model. <i>International Journal of Food Sciences and Nutrition</i> , 2018, 69, 46-51.	1.3	4
15	Microalgae as a potential source of carotenoids: Comparative results of an in vitro digestion method and a feeding experiment with C57BL/6J mice. <i>Journal of Functional Foods</i> , 2018, 49, 285-294.	1.6	31
16	Red Grape Marc Flour as Food Ingredient in Durum Wheat Spaghetti: Nutritional Evaluation and Bioaccessibility of Bioactive Compounds. <i>Food Science and Technology Research</i> , 2018, 24, 1093-1100.	0.3	27
17	Bioavailability and Safety of Nutrients from the Microalgae <i>Chlorella vulgaris</i> , <i>Nannochloropsis oceanica</i> and <i>Phaeodactylum tricornutum</i> in C57BL/6 Mice. <i>Nutrients</i> , 2018, 10, 965.	1.7	48
18	Isolation and Characterization of Lactic Acid Bacteria from Fermented Goat Milk in Tajikistan. <i>Journal of Microbiology and Biotechnology</i> , 2018, 28, 1834-1845.	0.9	10

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19	Quantification of <i>Slackia</i> and <i>Eggerthella</i> spp. in Human Feces and Adhesion of Representative Strains to Caco-2 Cells. <i>Frontiers in Microbiology</i> , 2016, 7, 658.	1.5	37
20	Bioaccessibility of carotenoids from <i>Chlorella vulgaris</i> and <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Food Sciences and Nutrition</i> , 2016, 67, 507-513.	1.3	79
21	Ultra high pressure homogenization of almond milk: Physico-chemical and physiological effects. <i>Food Chemistry</i> , 2016, 192, 82-89.	4.2	93
22	Anthocyanins suppress the cleavable complex formation by irinotecan and diminish its DNA-strand-breaking activity in the colon of Wistar rats. <i>Carcinogenesis</i> , 2013, 34, 835-840.	1.3	17
23	Cyto-genotoxic and oxidative effects of a continuous UVC treatment of liquid egg products. <i>Food Chemistry</i> , 2013, 138, 1682-1688.	4.2	13
24	UVC treatment using a Dean vortex technology – impact on apple juice enzymes and toxicological potential. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 20, 238-243.	2.7	20
25	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. <i>Aging Cell</i> , 2011, 10, 239-254.	3.0	96
26	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. <i>Aging Cell</i> , 2011, 10, 912-912.	3.0	4
27	<i>In vivo</i> bioassay to detect irinotecan-stabilized DNA/topoisomerase I complexes in rats. <i>Biotechnology Journal</i> , 2010, 5, 321-327.	1.8	11
28	Encapsulation of Carotenoids. , 2010, , 211-252.		18
29	Bioavailability and nutritional effects of carotenoids from organically and conventionally produced carrots in healthy men. <i>British Journal of Nutrition</i> , 2009, 101, 1664-1672.	1.2	47
30	Prevention of colon carcinogenesis by apple juice <i>in vivo</i> : Impact of juice constituents and obesity. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 1289-1302.	1.5	29
31	Overexpression of manganese superoxide dismutase in human dermal fibroblasts enhances the contraction of free floating collagen lattice: implications for ageing and hyperplastic scar formation. <i>Archives of Dermatological Research</i> , 2009, 301, 273-287.	1.1	12
32	Zeaxanthin is bioavailable from genetically modified zeaxanthin-rich potatoes. <i>European Journal of Nutrition</i> , 2008, 47, 99-103.	1.8	22
33	Obesity-related promotion of aberrant crypt foci in DMH-treated obese Zucker rats correlates with dyslipidemia rather than hyperinsulinemia. <i>European Journal of Nutrition</i> , 2008, 47, 161-170.	1.8	10
34	Effects of carrot and tomato juice consumption on faecal markers relevant to colon carcinogenesis in humans. <i>British Journal of Nutrition</i> , 2008, 99, 606-613.	1.2	31
35	No Differences in DNA Damage and Antioxidant Capacity Between Intervention Groups of Healthy, Nonsmoking Men Receiving 2, 5, or 8 Servings/Day of Vegetables and Fruit. <i>Nutrition and Cancer</i> , 2008, 60, 164-170.	0.9	36
36	Bioavailability of astaxanthin stereoisomers from wild (<i>Oncorhynchus</i> spp.) and aquacultured (<i>Salmo salar</i>) salmon in healthy men: a randomised, double-blind study. <i>British Journal of Nutrition</i> , 2008, 99, 1048-1054.	1.2	61

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37	DNA Strand Breaks and Tomatoes. , 2008, , 385-394.		0
38	Cloudy Apple Juice Is More Effective than Apple Polyphenols and an Apple Juice Derived Cloud Fraction in a Rat Model of Colon Carcinogenesis. Journal of Agricultural and Food Chemistry, 2007, 55, 1181-1187.	2.4	58
39	Effect of Consumption of Organically and Conventionally Produced Apples on Antioxidant Activity and DNA Damage in Humans. Journal of Agricultural and Food Chemistry, 2007, 55, 7716-7721.	2.4	53
40	Adhesive and Chemokine Stimulatory Properties of Potentially Probiotic Lactobacillus Strains. Journal of Food Protection, 2007, 70, 125-134.	0.8	49
41	Cellular Uptake of Carotenoid-Loaded Oil-in-Water Emulsions in Colon Carcinoma Cells in Vitro. Journal of Agricultural and Food Chemistry, 2006, 54, 9366-9369.	2.4	86
42	Piceid (Resveratrol Glucoside) Synthesis in Stilbene Synthase Transgenic Apple Fruit. Journal of Agricultural and Food Chemistry, 2006, 54, 4633-4640.	2.4	62
43	Adaptive cellular protection against UVA-1-induced lipid peroxidation in human dermal fibroblasts shows donor-to-donor variability and is glutathione dependent. Archives of Dermatological Research, 2006, 297, 324-328.	1.1	18
44	Visualization of astaxanthin localization in HT29 human colon adenocarcinoma cells by combined confocal resonance Raman and fluorescence microspectroscopy. Molecular Nutrition and Food Research, 2006, 50, 991-995.	1.5	15
45	A half-marathon and a marathon run induce oxidative DNA damage, reduce antioxidant capacity to protect DNA against damage and modify immune function in hobby runners. Redox Report, 2005, 10, 325-331.	1.4	44
46	Paraoxonase 1 Q192R (PON1-192) polymorphism is associated with reduced lipid peroxidation in healthy young men on a low-carotenoid diet supplemented with tomato juice. British Journal of Nutrition, 2005, 93, 291-297.	1.2	42
47	Supplementation of a Diet Low in Carotenoids with Tomato or Carrot Juice Does Not Affect Lipid Peroxidation in Plasma and Feces of Healthy Men. Journal of Nutrition, 2004, 134, 1081-1083.	1.3	64
48	Effects of supplementing a low-carotenoid diet with a tomato extract for 2 weeks on endogenous levels of DNA single strand breaks and immune functions in healthy non-smokers and smokers. Carcinogenesis, 2004, 25, 2373-2378.	1.3	65
49	Fruit juice consumption modulates antioxidative status, immune status and DNA damage. Journal of Nutritional Biochemistry, 2003, 14, 90-98.	1.9	200
50	Phytoestrogens Modulate Binding Response of Estrogen Receptors $\hat{1}\alpha$ and $\hat{1}\beta$ to the Estrogen Response Element. Journal of Agricultural and Food Chemistry, 2003, 51, 7632-7635.	2.4	243
51	Supplementation of a Low-Carotenoid Diet with Tomato or Carrot Juice Modulates Immune Functions in Healthy Men. Annals of Nutrition and Metabolism, 2003, 47, 255-261.	1.0	75
52	Selenium and the Protection Against Peroxynitrite. , 2002, , 71-76.		0
53	Red Wine Polyphenols Inhibit the Growth of Colon Carcinoma Cells and Modulate the Activation Pattern of Mitogen-Activated Protein Kinases. Journal of Nutrition, 2002, 132, 2814-2818.	1.3	62
54	Acute intake of moderate amounts of red wine or alcohol has no effect on the immune system of healthy men. European Journal of Nutrition, 2002, 41, 264-270.	1.8	33

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55	Paraoxonase 1 Q192R (PON1-192) polymorphism is associated with reduced lipid peroxidation in R-allele-carrier but not in QQ homozygous elderly subjects on a tomato-rich diet. <i>European Journal of Nutrition</i> , 2002, 41, 237-243.	1.8	29
56	β-Carotene Inhibits Growth of Human Colon Carcinoma Cells in Vitro by Induction of Apoptosis. <i>Biological Chemistry</i> , 2001, 382, 1663-8.	1.2	34
57	Malvidin-3-glucoside bioavailability in humans after ingestion of red wine, dealcoholized red wine and red grape juice. <i>European Journal of Nutrition</i> , 2001, 40, 113-120.	1.8	233
58	Even after UVA-exposure will nitric oxide protect cells from reactive oxygen intermediate-mediated apoptosis and necrosis. <i>Cell Death and Differentiation</i> , 2001, 8, 515-527.	5.0	64
59	Neurotensin- and EGF-Induced Metabolic Activation of Colon Carcinoma Cells Is Diminished by Dietary Flavonoid Cyanidin but Not by Its Glycosides. <i>Nutrition and Cancer</i> , 2001, 41, 172-179.	0.9	34
60	[13] Mitogen-activated protein kinase activation by singlet oxygen and ultraviolet A. <i>Methods in Enzymology</i> , 2000, 319, 130-143.	0.4	31
61	[21] Biological singlet oxygen quenchers assessed by monomol light emission. <i>Methods in Enzymology</i> , 2000, 319, 222-226.	0.4	10
62	Signaling by Singlet Oxygen in Biological Systems. , 2000, , 3-20.		8
63	Mechanisms of Antioxidant Defense against Nitric Oxide/Peroxynitrite. , 2000, , 343-354.		3
64	Peroxynitrite does not decompose to singlet oxygen (1ΔgO ₂) and nitroxyl (NO ⁻). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 10307-10312.	3.3	87
65	Responses to Peroxynitrite in Yeast: Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) as a Sensitive Intracellular Target for Nitration and Enhancement of Chaperone Expression and Ubiquitination. <i>Biological Chemistry</i> , 2000, 381, 121-126.	1.2	52
66	Natural Resistance of Human Beta Cells toward Nitric Oxide Is Mediated by Heat Shock Protein 70. <i>Journal of Biological Chemistry</i> , 2000, 275, 19521-19528.	1.6	74
67	Interaction of Peroxynitrite with Carotenoids in Human Low Density Lipoproteins. <i>Archives of Biochemistry and Biophysics</i> , 2000, 373, 302-305.	1.4	98
68	One-electron reduction of selenomethionine oxide. <i>Free Radical Research</i> , 2000, 32, 371-376.	1.5	31
69	[1] Naphthalene endoperoxides as generators of singlet oxygen in biological media. <i>Methods in Enzymology</i> , 2000, 319, 3-20.	0.4	85
70	Protein Oxidation in Human Stratum Corneum: Susceptibility of Keratins to Oxidation In Vitro and Presence of a Keratin Oxidation Gradient In Vivo. <i>Journal of Investigative Dermatology</i> , 1999, 113, 335-339.	0.3	132
71	Singlet Oxygen Mediates the UVA-induced Generation of the Photoaging-associated Mitochondrial Common Deletion. <i>Journal of Biological Chemistry</i> , 1999, 274, 15345-15349.	1.6	321
72	Peroxynitrite Diminishes Gap Junctional Communication: Protection by Selenite Supplementation. <i>IUBMB Life</i> , 1999, 48, 379-384.	1.5	15

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73	Stable Overexpression of Manganese Superoxide Dismutase in Mitochondria Identifies Hydrogen Peroxide as a Major Oxidant in the AP-1-mediated Induction of Matrix-degrading Metalloprotease-1. <i>Journal of Biological Chemistry</i> , 1999, 274, 25869-25876.	1.6	204
74	Adaptive Antioxidant Response of Manganese-Superoxide Dismutase Following Repetitive UVA Irradiation. <i>Journal of Investigative Dermatology</i> , 1999, 112, 13-18.	0.3	105
75	Peroxynitrite Diminishes Gap Junctional Communication: Protection by Selenite Supplementation. <i>IUBMB Life</i> , 1999, 48, 379-384.	1.5	18
76	Mitogen-activated protein kinase (p38-, JNK-, ERK-) activation pattern induced by extracellular and intracellular singlet oxygen and UVA. <i>FEBS Journal</i> , 1999, 260, 917-922.	0.2	206
77	Protection against peroxynitrite. <i>FEBS Letters</i> , 1999, 445, 226-230.	1.3	267
78	Activation pattern of mitogen-activated protein kinases elicited by peroxynitrite: attenuation by selenite supplementation. <i>FEBS Letters</i> , 1999, 448, 301-303.	1.3	120
79	[32] Defenses against peroxynitrite. <i>Methods in Enzymology</i> , 1999, 301, 301-311.	0.4	38
80	A New Function for Selenoproteins. , 1999, , 87-101.		0
81	Function of Thioredoxin Reductase as a Peroxynitrite Reductase Using Selenocystine or Ebselen. <i>Chemical Research in Toxicology</i> , 1999, 12, 264-269.	1.7	80
82	[33] Use of repair endonucleases to assess DNA damage by peroxynitrite. <i>Methods in Enzymology</i> , 1999, , 312-318.	0.4	1
83	PLASMA LIPID PEROXIDATION AND VITAMIN C STATUS IN HEALTHY CENTENARIANS. <i>Journal of the American Geriatrics Society</i> , 1999, 47, 1038-1039.	1.3	9
84	Sensitized Chemiluminescence and Fluorescence Methods in Studies of Oxidative Stress. , 1999, , 90-101.		1
85	Sensitization of Peroxynitrite Chemiluminescence by the Triplet Carbonyl Sensitizer Coumarin-525. Effect of CO ₂ . <i>Photochemistry and Photobiology</i> , 1998, 68, 797-801.	1.3	14
86	Electronically excited intermediate from peroxynitrite: evaluation by chemiluminescence and by the isomerization of 1 ² -carotene. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998, 47, 142-147.	1.7	3
87	Carotenoid mixtures protect multilamellar liposomes against oxidative damage: synergistic effects of lycopene and lutein. <i>FEBS Letters</i> , 1998, 427, 305-308.	1.3	295
88	Kinetic Study of the Reaction of Glutathione Peroxidase with Peroxynitrite. <i>Chemical Research in Toxicology</i> , 1998, 11, 1398-1401.	1.7	109
89	Reduction of Methionine Selenoxide to Selenomethionine by Glutathione. <i>Archives of Biochemistry and Biophysics</i> , 1998, 349, 201-203.	1.4	73
90	Protection by Organotellurium Compounds against Peroxynitrite-Mediated Oxidation and Nitration Reactions. <i>Biochemical Pharmacology</i> , 1998, 55, 817-823.	2.0	63

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91	Central Role of Ferrous/Ferric Iron in the Ultraviolet B Irradiation-mediated Signaling Pathway Leading to Increased Interstitial Collagenase (Matrix-degrading Metalloprotease (MMP)-1) and Stromelysin-1 (MMP-3) mRNA Levels in Cultured Human Dermal Fibroblasts. <i>Journal of Biological Chemistry</i> , 1998, 273, 5279-5287.	1.6	204
92	Protection against Peroxynitrite by Selenoproteins. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1998, 53, 228-232.	0.6	43
93	Activation of Gene Expression of Collagenase and ICAM-1 by UVA Radiation and by Exposure to Singlet Oxygen. , 1998, , 434-437.		0
94	Defenses Against Peroxynitrite. , 1998, , 505-509.		1
95	Glutathione Peroxidase Protects against Peroxynitrite-mediated Oxidations. <i>Journal of Biological Chemistry</i> , 1997, 272, 27812-27817.	1.6	421
96	Biological activities of natural and synthetic carotenoids: induction of gap junctional communication and singlet oxygen quenching. <i>Carcinogenesis</i> , 1997, 18, 89-92.	1.3	151
97	Oxidative Modification and Nitration of Human Low-Density Lipoproteins by the Reaction of Hypochlorous Acid with Nitrite. <i>Archives of Biochemistry and Biophysics</i> , 1997, 343, 254-259.	1.4	99
98	Singlet oxygen mediates the activation of JNK by UVA radiation in human skin fibroblasts. <i>FEBS Letters</i> , 1997, 408, 289-291.	1.3	87
99	Singlet oxygen is an early intermediate in cytokine-dependent ultraviolet-A induction of interstitial collagenase in human dermal fibroblasts in vitro. <i>FEBS Letters</i> , 1997, 413, 239-242.	1.3	119
100	Hydrogen peroxide (H ₂ O ₂) Increases the Steady-State mRNA Levels of Collagenase/MMP-1 in Human dermal Fibroblasts. <i>Free Radical Biology and Medicine</i> , 1997, 22, 515-524.	1.3	188
101	Selenium-Containing Compounds Protect DNA from Single-Strand Breaks Caused by Peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , 1996, 330, 216-218.	1.4	107
102	[³⁷] Reaction of peroxynitrite and hydrogen peroxide to produce singlet molecular oxygen (1 ¹ g). <i>Methods in Enzymology</i> , 1996, 269, 395-400.	0.4	11
103	Activation of transcription factor AP-2 mediates UVA radiation- and singlet oxygen-induced expression of the human intercellular adhesion molecule 1 gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 14586-14591.	3.3	202
104	Attenuation of oxidation and nitration reactions of peroxynitrite by selenomethionine, selenocystine and ebselen. <i>Biochemical Journal</i> , 1996, 319, 13-15.	1.7	119
105	Assessment of the C-525 laser dye as a chemiluminescence sensitizer for lipid peroxidation in biological membranes: A comparison with chlorophyll- <i>a</i> . <i>Free Radical Biology and Medicine</i> , 1996, 21, 833-843.	1.3	16
106	Ultraviolet B Wavelength Dependence for the Regulation of Two Major Matrix Metalloproteinases and Their Inhibitor TIMP-1 in Human Dermal Fibroblasts. <i>Photochemistry and Photobiology</i> , 1996, 64, 877-885.	1.3	68
107	Ultraviolet B Wavelength Dependence for the Regulation of Two Major Matrix Metalloproteinases and Their Inhibitor TIMP-1 in Human Dermal Fibroblasts. <i>Photochemistry and Photobiology</i> , 1996, 64, 649-657.	1.3	52
108	DNA damage by peroxynitrite characterized with DNA repair enzymes. <i>Nucleic Acids Research</i> , 1996, 24, 4105-4110.	6.5	141

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109	Inactivation of viruses by chemically and photochemically generated singlet molecular oxygen. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1995, 30, 63-70.	1.7	81
110	Singlet Oxygen May Mediate the Ultraviolet A-Induced Synthesis of Interstitial Collagenase. <i>Journal of Investigative Dermatology</i> , 1995, 104, 194-198.	0.3	192
111	Singlet molecular oxygen production in the reaction of peroxynitrite with hydrogen peroxide. <i>FEBS Letters</i> , 1994, 355, 287-289.	1.3	142
112	[37] singlet oxygen quenching by carotenoids. <i>Methods in Enzymology</i> , 1994, 234, 384-388.	0.4	33
113	Singlet oxygen induces collagenase expression in human skin fibroblasts. <i>FEBS Letters</i> , 1993, 331, 304-306.	1.3	129
114	Selective para-hydroxylation of phenol and aniline by singlet molecular oxygen. <i>Chemical Research in Toxicology</i> , 1993, 6, 548-553.	1.7	57
115	Antioxidant activity of the pyridoindole stobadine in liposomal and microsomal lipid peroxidation. <i>Chemico-Biological Interactions</i> , 1992, 83, 85-93.	1.7	23