Mustafa Atalay

List of Publications by Year
in descending order

113 papers	11,933 citations	71102 41 h-index	29157 104 g-index
113 all docs	113 docs citations	113 times ranked	21667 citing authors

#	Article	IF	Citations
1	Associations of physical activity, sedentary time, and diet quality with biomarkers of inflammation in children. European Journal of Sport Science, 2022, 22, 906-915.	2.7	13
2	The effects of a 2-year physical activity and dietary intervention on plasma lipid concentrations in children: the PANIC Study. European Journal of Nutrition, 2021, 60, 425-434.	3.9	6
3	Plasma irisin and its associations with oxidative stress in athletes suffering from overtraining syndrome. Physiology International, 2021, 107, 513-526.	1.6	2
4	A 2Âyear physical activity and dietary intervention attenuates the increase in insulin resistance in a general population of children: the PANIC study. Diabetologia, 2020, 63, 2270-2281.	6.3	22
5	Effects of military training on plasma amino acid concentrations and their associations with overreaching. Experimental Biology and Medicine, 2020, 245, 1029-1038.	2.4	3
6	Plasma irisin is increased following 12 weeks of Nordic walking and associates with glucose homoeostasis in overweight/obese men with impaired glucose regulation. European Journal of Sport Science, 2019, 19, 258-266.	2.7	23
7	A trans-ancestral meta-analysis of genome-wide association studies reveals loci associated with childhood obesity. Human Molecular Genetics, 2019, 28, 3327-3338.	2.9	76
8	Genetic predisposition to higher body fat yet lower cardiometabolic risk in children and adolescents. International Journal of Obesity, 2019, 43, 2007-2016.	3.4	5
9	Abdominal adiposity and cardiometabolic risk factors in children and adolescents: a Mendelian randomization analysis. American Journal of Clinical Nutrition, 2019, 110, 1079-1087.	4.7	22
10	Functional and biochemical responses of skeletal muscle following a moderate degree of systemic iron loading in mice. Journal of Applied Physiology, 2019, 126, 799-809.	2.5	4
11	Maternal and fetal genetic effects on birth weight and their relevance to cardio-metabolic risk factors. Nature Genetics, 2019, 51, 804-814.	21.4	402
12	Effects of Prolonged Dietary Curcumin Exposure on Skeletal Muscle Biochemical and Functional Responses of Aged Male Rats. International Journal of Molecular Sciences, 2019, 20, 1178.	4.1	32
13	Activin Receptor Ligand Blocking and Cancer Have Distinct Effects on Protein and Redox Homeostasis in Skeletal Muscle and Liver. Frontiers in Physiology, 2019, 9, 1917.	2.8	8
14	Piperine: Old Spice and New Nutraceutical?. Current Pharmaceutical Design, 2019, 25, 1729-1739.	1.9	45
15	Suppressed heat shock protein response in the kidney of exerciseâ€trained diabetic rats. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 1808-1817.	2.9	11
16	Body fat mass, lean body mass and associated biomarkers as determinants of bone mineral density in children 6â€“8 years of age â€“ The Physical Activity and Nutrition in Children (PANIC) study. Bone, 2018, 108, 106-114.	2.9	37
17	Life-Course Genome-wide Association Study Meta-analysis of Total Body BMD and Assessment of Age-Specific Effects. American Journal of Human Genetics, 2018, 102, 88-102.	6.2	252
18	Genetic predisposition to adiposity is associated with increased objectively assessed sedentary time in young children. International Journal of Obesity, 2018, 42, 111-114.	3.4	14

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19	Maternal and fetal genetic contribution to gestational weight gain. International Journal of Obesity, 2018, 42, 775-784.	3.4	36
20	Long-Term Exercise Protects against Cellular Stresses in Aged Mice. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-10.	4.0	21
21	Changes in cytokines, leptin, and IGF-1 levels in overtrained athletes during a prolonged recovery phase: A case-control study. Journal of Sports Sciences, 2017, 35, 2342-2349.	2.0	20
22	Association of plasma fatty acid composition with plasma irisin levels in normal weight and overweight/obese children. Pediatric Obesity, 2016, 11, 299-305.	2.8	17
23	Genome-wide associations for birth weight and correlations with adult disease. Nature, 2016, 538, 248-252.	27.8	406
24	Effects of muscular dystrophy, exercise and blocking activin receptor IIB ligands on the unfolded protein response and oxidative stress. Free Radical Biology and Medicine, 2016, 99, 308-322.	2.9	27
25	Association of MBOAT7 gene variant with plasma ALT levels in children: the PANIC study. Pediatric Research, 2016, 80, 651-655.	2.3	41
26	Associations of TM6SF2 167K allele with liver enzymes and lipid profile in children: the PANIC Study. Pediatric Research, 2016, 79, 684-688.	2.3	14
27	Age-dependent action of reactive oxygen species on transmitter release in mammalian neuromuscular junctions. Neurobiology of Aging, 2016, 38, 73-81.	3.1	12
28	Genome-wide association analysis identifies three new susceptibility loci for childhood body mass index. Human Molecular Genetics, 2016, 25, 389-403.	2.9	275
29	Validation of protein carbonyl measurement: A multi-centre study. Redox Biology, 2015, 4, 149-157.	9.0	102
30	Immuno-spin trapping detection of antioxidant/pro-oxidant properties of zinc or selenium on DNA and protein radical formation via hydrogen peroxide. Molecular and Cellular Biochemistry, 2015, 409, 23-31.	3.1	4
31	The 148 M allele of the PNPLA3 is associated with plasma irisin levels in a population sample of Caucasian children: The PANIC Study. Metabolism: Clinical and Experimental, 2015, 64, 793-796.	3.4	19
32	Associations of <scp>I148M</scp> variant in <scp>PNPLA3</scp> gene with plasma <scp>ALT</scp> levels during 2â€year followâ€up in normal weight and overweight children: the <scp>PANIC</scp> Study. Pediatric Obesity, 2015, 10, 84-90.	2.8	22
33	A novel common variant in DCST2 is associated with length in early life and height in adulthood. Human Molecular Genetics, 2015, 24, 1155-1168.	2.9	109
34	Decreased Thioredoxin-1 and Increased HSP90 Expression in Skeletal Muscle in Subjects with Type 2 Diabetes or Impaired Glucose Tolerance. BioMed Research International, 2014, 2014, 1-6.	1.9	14
35	Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress. Redox Biology, 2014, 3, 25-28.	9.0	86
36	Decline in cellular clearance systems induces inflammasome signaling in human ARPE-19 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 3038-3046.	4.1	60

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37	Impact of Wheat Aleurone Structure on Metabolic Disorders Caused by a High-Fat Diet in Mice. Journal of Agricultural and Food Chemistry, 2014, 62, 10101-10109.	5.2	16
38	Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. Nature Genetics, 2014, 46, 234-244.	21.4	959
39	12 Weeksâ€™ aerobic and resistance training without dietary intervention did not influence oxidative stress but aerobic training decreased atherogenic index in middle-aged men with impaired glucose regulation. Food and Chemical Toxicology, 2013, 61, 127-135.	3.6	29
40	Cortical spreading depression induces oxidative stress in the trigeminal nociceptive system. Neuroscience, 2013, 253, 341-349.	2.3	117
41	Elevated concentration of oxidized LDL together with poor cardiorespiratory and abdominal muscle fitness predicts metabolic syndrome in young men. Metabolism: Clinical and Experimental, 2013, 62, 992-999.	3.4	14
42	Nordic walking decreased circulating chemerin and leptin concentrations in middle-aged men with impaired glucose regulation. Annals of Medicine, 2013, 45, 162-170.	3.8	59
43	The effects of cocoa supplementation, caloric restriction, and regular exercise, on oxidative stress markers of brain and memory in the rat model. Food and Chemical Toxicology, 2013, 61, 36-41.	3.6	12
44	Genome-wide meta-analysis identifies 11 new loci for anthropometric traits and provides insights into genetic architecture. Nature Genetics, 2013, 45, 501-512.	21.4	578
45	Oxygen Consumption and Usage During Physical Exercise: The Balance Between Oxidative Stress and ROS-Dependent Adaptive Signaling. Antioxidants and Redox Signaling, 2013, 18, 1208-1246.	5.4	457
46	Sex-stratified Genome-wide Association Studies Including 270,000 Individuals Show Sexual Dimorphism in Genetic Loci for Anthropometric Traits. PLoS Genetics, 2013, 9, e1003500.	3.5	371
47	Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. Nature Genetics, 2012, 44, 991-1005.	21.4	746
48	Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. Nature Genetics, 2012, 44, 981-990.	21.4	1,748
49	Chromium picolinate and chromium histidinate protects against renal dysfunction by modulation of NF-Î°B pathway in high-fat diet fed and Streptozotocin-induced diabetic rats. Nutrition and Metabolism, 2012, 9, 30.	3.0	34
50	The Effects of Chromium Picolinate and Chromium Histidinate Administration on NF-Î°B and Nrf2/HO-1 Pathway in the Brain of Diabetic Rats. Biological Trace Element Research, 2012, 150, 291-296.	3.5	38
51	Effects of Easy-to-Use Protein-Rich Energy Bar on Energy Balance, Physical Activity and Performance during 8 Days of Sustained Physical Exertion. PLoS ONE, 2012, 7, e47771.	2.5	20
52	A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. Nature Genetics, 2012, 44, 659-669.	21.4	762
53	Aerobic Fitness Does Not Modify the Effect of FTO Variation on Body Composition Traits. PLoS ONE, 2012, 7, e51635.	2.5	8
54	Common Genetic Variation in the IGF1 Associates with Maximal Force Output. Medicine and Science in Sports and Exercise, 2011, 43, 2368-2374.	0.4	14

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55	Serum Sex Hormoneâ€“Binding Globulin and Cortisol Concentrations are Associated With Overreaching During Strenuous Military Training. Journal of Strength and Conditioning Research, 2011, 25, 787-797.	2.1	55
56	Treatments with sodium selenate or doxycycline offset diabetes-induced perturbations of thioredoxin-1 levels and antioxidant capacity. Molecular and Cellular Biochemistry, 2011, 351, 125-131.	3.1	8
57	Synthesis of some Mannich bases with dimethylamine and their hydrazones and evaluation of their cytotoxicity against Jurkat cells. Arzneimittelforschung, 2011, 61, 366-371.	0.4	19
58	Association of Military Training with Oxidative Stress and Overreaching. Medicine and Science in Sports and Exercise, 2011, 43, 1552-1560.	0.4	33
59	Physical Activity Attenuates the Influence of FTO Variants on Obesity Risk: A Meta-Analysis of 218,166 Adults and 19,268 Children. PLoS Medicine, 2011, 8, e1001116.	8.4	446
60	Acute Exercise and Thioredoxin-1 in Rat Brain, and Alpha-Lipoic Acid and Thioredoxin-Interacting Protein Response, in Diabetes. International Journal of Sport Nutrition and Exercise Metabolism, 2010, 20, 206-215.	2.1	10
61	Chemistry and biochemistry of lipid peroxidation products. Free Radical Research, 2010, 44, 1098-1124.	3.3	425
62	Exercise alters SIRT1, SIRT6, NAD and NAMPT levels in skeletal muscle of aged rats. Mechanisms of Ageing and Development, 2010, 131, 21-28.	4.6	230
63	Genetic variations of leptin and leptin receptor are associated with body composition changes in response to physical training. Cell Biochemistry and Function, 2010, 28, 306-312.	2.9	16
64	Alphaâ€lipoic acid does not alter stress protein response to acute exercise in diabetic brain. Cell Biochemistry and Function, 2010, 28, 644-650.	2.9	2
65	Exercise training and experimental diabetes modulate heat shock protein response in brain. Scandinavian Journal of Medicine and Science in Sports, 2010, 20, 83-89.	2.9	14
66	Postconditioning and Remote Postconditioning of Ischemic Rat Cardiac Grafts. European Surgical Research, 2010, 45, 1-8.	1.3	7
67	An inter-laboratory validation of methods of lipid peroxidation measurement in UVA-treated human plasma samples. Free Radical Research, 2010, 44, 1203-1215.	3.3	56
68	Altered oxidative stress in overtrained athletes. Journal of Sports Sciences, 2010, 28, 309-317.	2.0	89
69	Exercise Plays a Preventive Role Against Alzheimer's Disease. Journal of Alzheimer's Disease, 2010, 20, 777-783.	2.6	252
70	Diabetes impairs exercise training-associated thioredoxin response and glutathione status in rat brain. Journal of Applied Physiology, 2009, 106, 461-467.	2.5	52
71	Cytotoxicity of 1-Aryl-3-buthylamino-1-propanone Hydrochlorides against Jurkat and L6 Cells. Arzneimittelforschung, 2009, 59, 364-369.	0.4	10
72	Exercise improves import of 8-oxoguanine DNA glycosylase into the mitochondrial matrix of skeletal muscle and enhances the relative activity. Free Radical Biology and Medicine, 2009, 46, 238-243.	2.9	48

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73	The effect of fatty or lean fish intake on inflammatory gene expression in peripheral blood mononuclear cells of patients with coronary heart disease. European Journal of Nutrition, 2009, 48, 447-455.	3.9	47
74	The beneficial effects of nettle supplementation and exercise on brain lesion and memory in rat. Journal of Nutritional Biochemistry, 2009, 20, 974-981.	4.2	43
75	Î±-Lipoic acid supplementation enhances heat shock protein production and decreases post exercise lactic acid concentrations in exercised standardbred trotters. Research in Veterinary Science, 2009, 87, 462-467.	1.9	21
76	Î±-Lipoic acid modulates thiol antioxidant defences and attenuates exercise-induced oxidative stress in standardbred trotters. Free Radical Research, 2009, 43, 697-705.	3.3	26
77	Cytotoxic activity of 4â€²-hydroxychalcone derivatives against Jurkat cells and their effects on mammalian DNA topoisomerase I. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 804-807.	5.2	20
78	Time-of-day effects during acute isokinetic exhaustive eccentric exercise: Serum leptin response. Isokinetics and Exercise Science, 2009, 17, 19-25.	0.4	5
79	Heat Shock Proteins in Diabetes and Wound Healing. Current Protein and Peptide Science, 2009, 10, 85-95.	1.4	118
80	A common variation in the promoter region of interleukin-6 gene shows association with exercise performance. Journal of Sports Science and Medicine, 2009, 8, 271-7.	1.6	6
81	Downregulation of genes involved in NFÎºB activation in peripheral blood mononuclear cells after weight loss is associated with the improvement of insulin sensitivity in individuals with the metabolic syndrome: the GENOBIN study. Diabetologia, 2008, 51, 2060-2067.	6.3	57
82	Exercise training with dietary counselling increases mitochondrial chaperone expression in middle-aged subjects with impaired glucose tolerance. BMC Endocrine Disorders, 2008, 8, 3.	2.2	16
83	Radicicol but not geldanamycin evokes oxidative stress response and efflux protein inhibition in ARPE-19 human retinal pigment epithelial cells. European Journal of Pharmacology, 2008, 584, 229-236.	3.5	24
84	Effect of weight loss on cytokine messenger RNA expression in peripheral blood mononuclear cells of obese subjects with the metabolic syndrome. Metabolism: Clinical and Experimental, 2008, 57, 192-199.	3.4	85
85	Expression of ghrelin gene in peripheral blood mononuclear cells and plasma ghrelin concentrations in patients with metabolic syndrome.. European Journal of Endocrinology, 2008, 158, 499-510.	3.7	33
86	Inflammation markers are modulated by responses to diets differing in postprandial insulin responses in individuals with the metabolic syndrome. American Journal of Clinical Nutrition, 2008, 87, 1497-1503.	4.7	91
87	Alpha-Lipoic Acid Modulates Heat Shock Factor-1 Expression in Streptozotocin-Induced Diabetic Rat Kidney. Antioxidants and Redox Signaling, 2007, 9, 497-506.	5.4	32
88	Skeletal Muscle HSP Expression in Response to Immobilization and Remobilization. International Journal of Sports Medicine, 2007, 28, 281-286.	1.7	6
89	Markers of absorption and synthesis of cholesterol in men with type 1 diabetes. Diabetes/Metabolism Research and Reviews, 2007, 23, 372-377.	4.0	29
90	Heat Shock Preconditioning Induces Protein Carbonylation and Alters Antioxidant Protection in Superficially Injured Guinea Pig Gastric Mucosa In Vitro. Digestive Diseases and Sciences, 2007, 52, 1897-1905.	2.3	11

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91	Heart rate variability in trotters during different training periods. Equine Veterinary Journal, 2006, 38, 214-217.	1.7	23
92	Antireflux surgery and esophageal mucosal DNA damage. Pathophysiology, 2006, 13, 23-27.	2.2	5
93	Heat shock protein 60 response to exercise in diabetes. Journal of Diabetes and Its Complications, 2006, 20, 257-261.	2.3	42
94	Dietary Antioxidants for the Athlete. Current Sports Medicine Reports, 2006, 5, 182-186.	1.2	41
95	Exercise-induced oxidative stress and muscle stress protein responses in trotters. European Journal of Applied Physiology, 2005, 93, 496-501.	2.5	51
96	Oxygen radical absorbance capacity (ORAC) and exercise-induced oxidative stress in trotters. European Journal of Applied Physiology, 2005, 95, 550-556.	2.5	39
97	The effects of some Mannich bases on heat shock proteins HSC70 and GRP75, and thioredoxin and glutaredoxin levels in Jurkat cells. Toxicology in Vitro, 2005, 19, 573-580.	2.4	27
98	Effects of prolonged exercise on oxidative stress and antioxidant defense in endurance horse. Journal of Sports Science and Medicine, 2005, 4, 415-21.	1.6	29
99	Exercise training modulates heat shock protein response in diabetic rats. Journal of Applied Physiology, 2004, 97, 605-611.	2.5	168
100	A key angiogenic role of monocyte chemoattractant protein-1 in hemangioendothelioma proliferation. American Journal of Physiology - Cell Physiology, 2004, 287, C866-C873.	4.6	41
101	Anti-angiogenic, Antioxidant, and Anti-carcinogenic Properties of a Novel Anthocyanin-Rich Berry Extract Formula. Biochemistry (Moscow), 2004, 69, 75-80.	1.5	263
102	Recovery from immobilisation: responses of fast-twitch muscle fibres to spontaneous and intensive exercise in rat calf muscles. Pathophysiology, 2004, 11, 17-22.	2.2	5
103	Endurance training and glutathione-dependent antioxidant defense mechanism in heart of the diabetic rats. Journal of Sports Science and Medicine, 2003, 2, 52-61.	1.6	14
104	Effects of endurance training on tissue glutathione homeostasis and lipid peroxidation in streptozotocin-induced diabetic rats. Scandinavian Journal of Medicine and Science in Sports, 2002, 12, 163-170.	2.9	61
105	Diabetes, oxidative stress and physical exercise. Journal of Sports Science and Medicine, 2002, 1, 1-14.	1.6	77
106	Î±-Lipoic acid supplementation: tissue glutathione homeostasis at rest and after exercise. Journal of Applied Physiology, 1999, 86, 1191-1196.	2.5	76
107	Physical Exercise and Antioxidant Defenses in the Hearta. Annals of the New York Academy of Sciences, 1999, 874, 169-177.	3.8	40
108	Skeletal muscle and liver lipoyllysine content in response to exercise, training and dietary Î±â€lipoic acid supplementation. IUBMB Life, 1998, 46, 297-306.	3.4	7

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109	Fish oil and vitamin E supplementation in oxidative stress at rest and after physical exercise. Journal of Applied Physiology, 1997, 83, 189-195.	2.5	70
110	Altered antioxidant enzyme defences in insulin-dependent diabetic men with increased resting and exercise-induced oxidative stress. Acta Physiologica Scandinavica, 1997, 161, 195-201.	2.2	66
111	Glutathione-dependent modulation of exhausting exercise-induced changes in neutrophil function of rats. European Journal of Applied Physiology and Occupational Physiology, 1996, 74, 342-347.	1.2	34
112	Skeletal muscle and heart antioxidant defences in response to sprint training. Acta Physiologica Scandinavica, 1996, 158, 129-134.	2.2	67
113	Glutathione-dependent modulation of exhausting exercise-induced changes in neutrophil function of rats. European Journal of Applied Physiology, 1996, 74, 342-347.	2.5	1