Mustafa M zyrek

List of Publications by Citations

87 papers	5,873 citations	33 h-index	76 g-index
93 ext. papers	6,768 ext. citations	4 avg, IF	5.67 L-index

#	Paper	IF	Citations
87	Novel total antioxidant capacity index for dietary polyphenols and vitamins C and E, using their cupric ion reducing capability in the presence of neocuproine: CUPRAC method. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 7970-81	5.7	1315
86	Comparative evaluation of various total antioxidant capacity assays applied to phenolic compounds with the CUPRAC assay. *Molecules*, **2007**, 12, 1496-547	4.8	565
85	Antioxidant Activity/Capacity Measurement. 1. Classification, Physicochemical Principles, Mechanisms, and Electron Transfer (ET)-Based Assays. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 997-1027	5.7	329
84	Mechanism of antioxidant capacity assays and the CUPRAC (cupric ion reducing antioxidant capacity) assay. *Mikrochimica Acta*, **2008**, 160, 413-419	5.8	325
83	Methods of measurement and evaluation of natural antioxidant capacity/activity (IUPAC Technical Report). *Pure and Applied Chemistry*, **2013**, 85, 957-998	2.1	320
82	The cupric ion reducing antioxidant capacity and polyphenolic content of some herbal teas. *International Journal of Food Sciences and Nutrition*, **2006**, 57, 292-304	3.7	289
81	Total antioxidant capacity assay of human serum using copper(II)-neocuproine as chromogenic oxidant: the CUPRAC method. *Free Radical Research*, **2005**, 39, 949-61	4	195
80	Antioxidant Activity/Capacity Measurement. 2. Hydrogen Atom Transfer (HAT)-Based, Mixed-Mode (Electron Transfer (ET)/HAT), and Lipid Peroxidation Assays. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 1028-45	5.7	157
79	Removal of Cu2+ and Pb2+ ions from aqueous solutions by starch-graft-acrylic acid/montmorillonite superabsorbent nanocomposite hydrogels. *Polymer Bulletin*, **2010**, 65, 333-346	2.4	128
78	Spectrophotometric determination of ascorbic acid by the modified CUPRAC method with extractive separation of flavonoids-La(III) complexes. *Analytica Chimica Acta*, **2007**, 588, 88-95	6.6	109
77	Development of a silver nanoparticle-based method for the antioxidant capacity measurement of polyphenols. *Analytical Chemistry*, **2012**, 84, 8052-9	7.8	102
76	Hydroxyl radical scavenging assay of phenolics and flavonoids with a modified cupric reducing antioxidant capacity (CUPRAC) method using catalase for hydrogen peroxide degradation. *Analytica Chimica Acta*, **2008**, 616, 196-206	6.6	98
75	Solvent effects on the antioxidant capacity of lipophilic and hydrophilic antioxidants measured by CUPRAC, ABTS/persulphate and FRAP methods. *Talanta*, **2010**, 81, 1300-9	6.2	93
74	Spectrophotometric determination of ascorbic acid using copper(II)-neocuproine reagent in beverages and pharmaceuticals. *Talanta*, **2005**, 65, 1226-32	6.2	92
73	The main and modified CUPRAC methods of antioxidant measurement. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 652-664	14.6	91
72	A comprehensive review of CUPRAC methodology. *Analytical Methods*, **2011**, 3, 2439	3.2	85
71	Antioxidant capacity of fresh, sun- and sulphited-dried Malatya apricot (Prunus armeniaca) assayed by CUPRAC, ABTS/TEAC and folin methods. *International Journal of Food Science and Technology*, **2006**, 41, 76-85	3.8	81

70	Novel hydroxyl radical scavenging antioxidant activity assay for water-soluble antioxidants using a modified CUPRAC method. *Biochemical and Biophysical Research Communications*, **2006**, 345, 1194-200	3.4	81
69	Measurement of xanthine oxidase inhibition activity of phenolics and flavonoids with a modified cupric reducing antioxidant capacity (CUPRAC) method. *Analytica Chimica Acta*, **2009**, 636, 42-50	6.6	70
68	Antioxidant Activity/Capacity Measurement. 3. Reactive Oxygen and Nitrogen Species (ROS/RNS) Scavenging Assays, Oxidative Stress Biomarkers, and Chromatographic/Chemometric Assays. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 1046-70	5.7	67
67	Determination of antioxidants by a novel on-line HPLC-cupric reducing antioxidant capacity (CUPRAC) assay with post-column detection. *Analytica Chimica Acta*, **2010**, 674, 79-88	6.6	67
66	A novel hydrogen peroxide scavenging assay of phenolics and flavonoids using cupric reducing antioxidant capacity (CUPRAC) methodology. *Journal of Food Composition and Analysis*, **2010**, 23, 689-698	4.1	60
65	Simultaneous total antioxidant capacity assay of lipophilic and hydrophilic antioxidants in the same acetone-water solution containing 2% methyl-beta-cyclodextrin using the cupric reducing antioxidant capacity (CUPRAC) method. *Analytica Chimica Acta*, **2008**, 630, 28-39	6.6	58
64	Development of a low-cost optical sensor for cupric reducing antioxidant capacity measurement of food extracts. *Analytical Chemistry*, **2010**, 82, 4252-8	7.8	53
63	Spectroscopic study and antioxidant properties of the inclusion complexes of rosmarinic acid with natural and derivative cyclodextrins. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 1615-24	4.4	46
62	Antioxidant/antiradical properties of microwave-assisted extracts of three wild edible mushrooms. *Food Chemistry*, **2014**, 157, 323-31	8.5	45
61	Determination of biothiols by a novel on-line HPLC-DTNB assay with post-column detection. *Analytica Chimica Acta*, **2012**, 750, 173-81	6.6	45
60	Direct measurement of total antioxidant capacity of cereals: QUENCHER-CUPRAC method. *Talanta*, **2013**, 108, 136-42	6.2	45
59	Comparative evaluation of antioxidant capacities of thiol-based antioxidants measured by different in vitro methods. *Talanta*, **2011**, 83, 1650-8	6.2	44
58	Synthesis and antioxidant activities of transition metal complexes based 3-hydroxysalicylaldehyde-S-methylthiosemicarbazone. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 138, 866-72	4.4	43
57	tert-Butylhydroquinone as a spectroscopic probe for the superoxide radical scavenging activity assay of biological samples. *Analytical Chemistry*, **2011**, 83, 5652-60	7.8	38
56	Cupric ion reducing antioxidant capacity assay for food antioxidants: vitamins, polyphenolics, and flavonoids in food extracts. *Methods in Molecular Biology*, **2008**, 477, 163-93	1.4	38
55	Selective optical sensing of biothiols with Ellman's reagent: 5,5'-Dithio-bis(2-nitrobenzoic acid)-modified gold nanoparticles. *Analytica Chimica Acta*, **2013**, 794, 90-8	6.6	36
54	Antioxidant Capacities of Some Food Plants Wildly Grown in Ayvalik of Turkey. *Food Science and Technology Research*, **2009**, 15, 59-64	0.8	33
53	Hydroxyl radical detection with a salicylate probe using modified CUPRAC spectrophotometry and HPLC. *Talanta*, **2008**, 77, 90-7	6.2	29

52	A novel differential pulse voltammetric (DPV) method for measuring the antioxidant capacity of polyphenols-reducing cupric neocuproine complex. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 7111-7	5.7	28
51	Synthesis, antioxidant activities of the nickel(II), iron(III) and oxovanadium(IV) complexes with N2O2 chelating thiosemicarbazones. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 126, 317-23	4.4	26
50	Novel oxime based flavanone, naringin-oxime: synthesis, characterization and screening for antioxidant activity. *Chemico-Biological Interactions*, **2014**, 212, 40-6	5	26
49	Identification and anti-oxidant capacity determination of phenolics and their glycosides in elderflower by on-line HPLC-CUPRAC method. *Phytochemical Analysis*, **2014**, 25, 147-54	3.4	25
48	Novel pro-oxidant activity assay for polyphenols, vitamins C and E using a modified CUPRAC method. *Talanta*, **2013**, 115, 583-9	6.2	25
47	Synthesis, characterization and antioxidant capacity of naringenin-oxime. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 85, 235-40	4.4	24
46	Antioxidant Capacities of Herbal Plants Used in the Manufacture of Van Herby Cheese: Otlu Peynir *International Journal of Food Properties*, **2008**, 11, 747-761	3	24
45	Design, Synthesis, Biological Evaluation, and Antioxidant and Cytotoxic Activity of Heteroatom-Substituted 1,4-Naphtho- and Benzoquinones. *Chemical and Pharmaceutical Bulletin*, **2015**, 63, 1029-39	1.9	23
44	Cupric ion reducing antioxidant capacity assay for antioxidants in human serum and for hydroxyl radical scavengers. *Methods in Molecular Biology*, **2010**, 594, 215-39	1.4	23
43	Polyphenolic contents of natural dyes produced from industrial plants assayed by HPLC and novel spectrophotometric methods. *Industrial Crops and Products*, **2010**, 32, 499-506	5.9	21
42	Antioxidant capacity of quercetin and its glycosides in the presence of cyclodextrins: influence of glycosylation on inclusion complexation. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2015**, 83, 309-319	1.7	20
41	Resorcinol as a spectrofluorometric probe for the hypochlorous acid scavenging activity assay of biological samples. *Analytical Chemistry*, **2012**, 84, 9529-36	7.8	20
40	CUPRAC total antioxidant capacity assay of lipophilic antioxidants in combination with hydrophilic antioxidants using the macrocyclic oligosaccharide methyl cyclodextrin as the solubility enhancer. *Reactive and Functional Polymers*, **2007**, 67, 1548-1560	4.6	20
39	Identification and Determination of Phenolics in Lamiaceae Species by UPLC-DAD-ESI-MS/MS. *Journal of Chromatographic Science*, **2017**, 55, 291-300	1.4	19
38	Dioxomolybdenum(VI) complexes of S-methyl-5-bromosalicylidene-N-alkyl substituted thiosemicarbazones: Synthesis, catalase inhibition and antioxidant activities. *Inorganica Chimica Acta*, **2018**, 469, 495-502	2.7	19
37	Development of a fluorescent probe for measurement of peroxyl radical scavenging activity in biological samples. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 1839-45	5.7	19
36	Synthesis and investigation of antioxidant activity of the dithiocarbamate derivatives of 9,10-anthracenedione. *Monatshefte F Chemie*, **2016**, 147, 2093-2101	1.4	19
35	Novel optical fiber reflectometric CUPRAC sensor for total antioxidant capacity measurement of food extracts and biological samples. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 8381-8	5.7	18

34	TOTAL ANTIOXIDANT CAPACITY AND PHENOLIC CONTENTS OF TURKISH HAZELNUT (CORYLUS AVELLANA L.) KERNELS AND OILS. *Journal of Food Biochemistry*, **2013**, 37, 53-61	3.3	17
33	Optimizing the extraction of polyphenols from Sideritis montana L. using response surface methodology. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 158, 137-143	3.5	17
32	Optimization of microwave-assisted extraction of polyphenols from herbal teas and evaluation of their in vitro hypochlorous acid scavenging activity. *Journal of Agricultural and Food Chemistry*, **2014** , 62, 11109-15	5.7	15
31	Study on adsorption, regeneration, and reuse of crosslinked chitosan graft copolymers for Cu(II) ion removal from aqueous solutions. *Desalination and Water Treatment*, **2014**, 52, 3246-3255		15
30	Novel spectroscopic sensor for the hydroxyl radical scavenging activity measurement of biological samples. *Talanta*, **2012**, 99, 689-96	6.2	13
29	Differences in responsivity of original cupric reducing antioxidant capacity and cupric-bathocuproine sulfonate assays to antioxidant compounds. *Analytical Biochemistry*, **2012**, 423, 36-8	3.1	13
28	One-pot synthesis, characterization, and antioxidant capacity of sulfur- and oxygen-substituted 1,4-naphthoquinones and a structural study. *Monatshefte F Chemie*, **2015**, 146, 2117-2126	1.4	11
27	Development of a new catalase activity assay for biological samples using optical CUPRAC sensor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 132, 485-90	4.4	11
26	Sensitivity enhancement of CUPRAC and iron(III)-phenanthroline antioxidant assays by preconcentration of colored reaction products on a weakly acidic cation exchanger. *Reactive and Functional Polymers*, **2007**, 67, 1478-1486	4.6	11
25	Synthesis, Antimicrobial Properties, and Inhibition of Catalase Activity of 1,4-Naphtho- and Benzoquinone Derivatives Containing N-, S-, O-Substituted. *Heteroatom Chemistry*, **2019**, 2019, 1-12	1.2	11
24	Comparison of microvessel densities in rat prostate tissues treated with finasteride, bicalutamide and surgical castration: a preliminary study. *International Journal of Urology*, **2005**, 12, 194-8	2.3	10
23	Methods to evaluate the scavenging activity of antioxidants toward reactive oxygen and nitrogen species (IUPAC Technical Report). *Pure and Applied Chemistry*, **2022**, 94, 87-144	2.1	10
22	Synthesis and investigation of antimicrobial and antioxidant activity of anthraquinonylhydrazones. *Monatshefte F Chemie*, **2018**, 149, 1111-1119	1.4	6
21	Microwave-Assisted Extraction of Polyphenolics from Some Selected Medicinal Herbs Grown in Turkey. *Records of Natural Products*, **2017**, 12, 29-39	1.9	6
20	A square-pyramidal iron(III) complex obtained from 2-hydroxy-benzophenone-S-allyl-thiosemicarbazone: synthesis, characterization, electrochemistry, quantum chemical studies and antioxidant capability. *Journal of Coordination Chemistry*, **2020**, 73, 120-136	1.6	5
19	The CUPRAC Methods of Antioxidant Measurement for Beverages **2014**, 235-244		5
18	Biosorption potential of two brown seaweeds in the removal of chromium. *Water Science and Technology*, **2018**, 78, 2564-2576	2.2	5
17	Protective effects of Salvia officinalis extract against cyclophosphamide-induced genotoxicity and oxidative stress in rats		4

16	A Novel Spectrofluorometric Probe for the Determination of Peroxynitrite Anion Scavenging Activity of Biothiols and Amino Acids. *Analytical Sciences*, **2016**, 32, 1315-1320	1.7	3
15	The effect of doxazosin and sildenafil citrate combination on bladder tissue contractility, alpha adrenergic receptor, and iNOS subtype expression in a male rat model of partially bladder outlet obstruction. *Neurourology and Urodynamics*, **2017**, 36, 1479-1487	2.3	3
14	Tumor specific cytotoxicity and telomerase down-regulation in prostate cancer by autologous dendritic cells loaded with whole tumor cell antigens. *Urologic Oncology: Seminars and Original Investigations*, **2010**, 28, 290-5	2.8	2
13	Glutathione Peroxidase Activity of Biological Samples Using A Novel Microplate-Based Method. *Current Analytical Chemistry*, **2018**, 14, 512-518	1.7	2
12	A method for dyeing polyester fibres with quinone derivatives and evaluation of their antioxidant activity. *Chemical Industry and Chemical Engineering Quarterly*, **2018**, 24, 85-92	0.7	2
11	New vitamin K3 (menadione) analogues: synthesis, characterization, antioxidant and catalase inhibition activities. *Journal of Chemical Sciences*, **2020**, 132, 1	1.8	1
10	A novel hypobromous acid scavenging activity assay using p-cresol as a spectrofluorometric probe. *Turkish Journal of Chemistry*, **2018**, 42,	1	1
9	Ethylenediamine grafted carbon nanotube aerogels modified screen-printed electrode for simultaneous electrochemical immunoassay of multiple tumor markers. *Journal of Electroanalytical Chemistry*, **2021**, 900, 115700	4.1	1
8	Enrichment of Hazelnut Oil with Several Polyphenols: An Alternative Approach to A New Functional Food. *Journal of Oleo Science*, **2021**, 70, 11-19	1.6	1
7	Synthesis of New Regioisomers of 5-Nitro-1,4-Naphthoquinone, Evaluation of Antioxidant and Catalase Inhibition Activities.. *Acta Chimica Slovenica*, **2022**, 69, 187-199	1.9	1
6	Removal of metal ions from aqueous solutions by chitosan-g-itaconic acid/hydrophilic nanoclay nanocomposites. *Main Group Chemistry*, **2017**, 16, 111-124	0.6	0
5	Electrochemical Immunosensors Based on Nanostructured Materials for Sensing of Prostate-Specific Antigen: A Review. *Current Medicinal Chemistry*, **2021**, 28, 4023-4048	4.3	0
4	Dioxomolybdenum(VI) complexes with 4-benzyloxysalicylidene-N/S-alkyl thiosemicarbazones: Synthesis, structural analysis, antioxidant activity and xanthine oxidase inhibition. *Polyhedron*, **2021**, 209, 115467	2.7	0
3	Novel Nanoparticle-based Colorimetric Probes and Sensors for Determining Phenolic Antioxidants, Biothiols, Nitrite and Hydrogen Peroxide. *Procedia Technology*, **2017**, 27, 94-95		
2	A new cause of male infertility after cisplatin exposure: the effect of cisplatin on Y chromosomes. *Urology*, **2009**, 73, 1145-9	1.6	
1	Electrochemical Determination of Rivastigmine Hydrogen Tartrate at ECyclodextrin/Multi-Walled Carbon Nanotubes Modified Electrode. *Current Pharmaceutical Analysis*, **2019**, 15, 211-216	0.6	