

Mustafa M zyrek

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Methods to evaluate the scavenging activity of antioxidants toward reactive oxygen and nitrogen species (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2022 , 94, 87-144	2.1	10
86	Synthesis of New Regioisomers of 5-Nitro-1,4-Naphthoquinone, Evaluation of Antioxidant and Catalase Inhibition Activities.. <i>Acta Chimica Slovenica</i> , 2022 , 69, 187-199	1.9	1
85	Electrochemical Immunosensors Based on Nanostructured Materials for Sensing of Prostate-Specific Antigen: A Review. <i>Current Medicinal Chemistry</i> , 2021 , 28, 4023-4048	4.3	0
84	Dioxomolybdenum(VI) complexes with 4-benzyloxysalicylidene-N/S-alkyl thiosemicarbazones: Synthesis, structural analysis, antioxidant activity and xanthine oxidase inhibition. <i>Polyhedron</i> , 2021 , 209, 115467	2.7	0
83	Ethylenediamine grafted carbon nanotube aerogels modified screen-printed electrode for simultaneous electrochemical immunoassay of multiple tumor markers. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 900, 115700	4.1	1
82	Enrichment of Hazelnut Oil with Several Polyphenols: An Alternative Approach to A New Functional Food. <i>Journal of Oleo Science</i> , 2021 , 70, 11-19	1.6	1
81	New vitamin K3 (menadione) analogues: synthesis, characterization, antioxidant and catalase inhibition activities. <i>Journal of Chemical Sciences</i> , 2020 , 132, 1	1.8	1
80	A square-pyramidal iron(III) complex obtained from 2-hydroxy-benzophenone-S-allyl-thiosemicarbazone: synthesis, characterization, electrochemistry, quantum chemical studies and antioxidant capability. <i>Journal of Coordination Chemistry</i> , 2020 , 73, 120-136	1.6	5
79	Electrochemical Determination of Rivastigmine Hydrogen Tartrate at β Cyclodextrin/Multi-Walled Carbon Nanotubes Modified Electrode. <i>Current Pharmaceutical Analysis</i> , 2019 , 15, 211-216	0.6	
78	Synthesis, Antimicrobial Properties, and Inhibition of Catalase Activity of 1,4-Naphtho- and Benzoquinone Derivatives Containing N-, S-, O-Substituted. <i>Heteroatom Chemistry</i> , 2019 , 2019, 1-12	1.2	11
77	Synthesis and investigation of antimicrobial and antioxidant activity of anthraquinonylhydrazones. <i>Monatshefte für Chemie</i> , 2018 , 149, 1111-1119	1.4	6
76	Dioxomolybdenum(VI) complexes of S-methyl-5-bromosalicylidene-N-alkyl substituted thiosemicarbazones: Synthesis, catalase inhibition and antioxidant activities. <i>Inorganica Chimica Acta</i> , 2018 , 469, 495-502	2.7	19
75	Glutathione Peroxidase Activity of Biological Samples Using A Novel Microplate-Based Method. <i>Current Analytical Chemistry</i> , 2018 , 14, 512-518	1.7	2
74	A method for dyeing polyester fibres with quinone derivatives and evaluation of their antioxidant activity. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2018 , 24, 85-92	0.7	2
73	Biosorption potential of two brown seaweeds in the removal of chromium. <i>Water Science and Technology</i> , 2018 , 78, 2564-2576	2.2	5
72	A novel hypobromous acid scavenging activity assay using p-cresol as a spectrofluorometric probe. <i>Turkish Journal of Chemistry</i> , 2018 , 42,	1	1
71	Optimizing the extraction of polyphenols from <i>Sideritis montana</i> L. using response surface methodology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 158, 137-143	3.5	17

70	Identification and Determination of Phenolics in Lamiaceae Species by UPLC-DAD-ESI-MS/MS. <i>Journal of Chromatographic Science</i> , 2017 , 55, 291-300	1.4	19
69	Removal of metal ions from aqueous solutions by chitosan-g-itaconic acid/hydrophilic nanoclay nanocomposites. <i>Main Group Chemistry</i> , 2017 , 16, 111-124	0.6	0
68	Novel Nanoparticle-based Colorimetric Probes and Sensors for Determining Phenolic Antioxidants, Biothiols, Nitrite and Hydrogen Peroxide. <i>Procedia Technology</i> , 2017 , 27, 94-95		
67	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. <i>Neurourology and Urodynamics</i> , 2017 , 36, 1479-1487	2.3	3
66	Microwave-Assisted Extraction of Polyphenolics from Some Selected Medicinal Herbs Grown in Turkey. <i>Records of Natural Products</i> , 2017 , 12, 29-39	1.9	6
65	A Novel Spectrofluorometric Probe for the Determination of Peroxynitrite Anion Scavenging Activity of Biothiols and Amino Acids. <i>Analytical Sciences</i> , 2016 , 32, 1315-1320	1.7	3
64	Antioxidant Activity/Capacity Measurement. 2. Hydrogen Atom Transfer (HAT)-Based, Mixed-Mode (Electron Transfer (ET)/HAT), and Lipid Peroxidation Assays. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 1028-45	5.7	157
63	Antioxidant Activity/Capacity Measurement. 3. Reactive Oxygen and Nitrogen Species (ROS/RNS) Scavenging Assays, Oxidative Stress Biomarkers, and Chromatographic/Chemometric Assays. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 1046-70	5.7	67
62	Antioxidant Activity/Capacity Measurement. 1. Classification, Physicochemical Principles, Mechanisms, and Electron Transfer (ET)-Based Assays. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 997-1027	5.7	329
61	Synthesis and investigation of antioxidant activity of the dithiocarbamate derivatives of 9,10-anthracenedione. <i>Monatshefte Für Chemie</i> , 2016 , 147, 2093-2101	1.4	19
60	One-pot synthesis, characterization, and antioxidant capacity of sulfur- and oxygen-substituted 1,4-naphthoquinones and a structural study. <i>Monatshefte Für Chemie</i> , 2015 , 146, 2117-2126	1.4	11
59	Antioxidant capacity of quercetin and its glycosides in the presence of Cyclodextrins: influence of glycosylation on inclusion complexation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015 , 83, 309-319	1.7	20
58	Synthesis and antioxidant activities of transition metal complexes based 3-hydroxysalicylaldehyde-S-methylthiosemicarbazone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 866-72	4.4	43
57	Design, Synthesis, Biological Evaluation, and Antioxidant and Cytotoxic Activity of Heteroatom-Substituted 1,4-Naphtho- and Benzoquinones. <i>Chemical and Pharmaceutical Bulletin</i> , 2015 , 63, 1029-39	1.9	23
56	The CUPRAC Methods of Antioxidant Measurement for Beverages 2014 , 235-244		5
55	Identification and anti-oxidant capacity determination of phenolics and their glycosides in elderflower by on-line HPLC-CUPRAC method. <i>Phytochemical Analysis</i> , 2014 , 25, 147-54	3.4	25
54	Optimization of microwave-assisted extraction of polyphenols from herbal teas and evaluation of their in vitro hypochlorous acid scavenging activity. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 11109-15	5.7	15
53	A novel differential pulse voltammetric (DPV) method for measuring the antioxidant capacity of polyphenols-reducing cupric neocuproine complex. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 7111-7	5.7	28

52	Synthesis, antioxidant activities of the nickel(II), iron(III) and oxovanadium(IV) complexes with N2O2 chelating thiosemicarbazones. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 126, 317-23	4.4	26
51	Development of a new catalase activity assay for biological samples using optical CUPRAC sensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 132, 485-90	4.4	11
50	Development of a fluorescent probe for measurement of peroxy radical scavenging activity in biological samples. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 1839-45	5.7	19
49	Antioxidant/antiradical properties of microwave-assisted extracts of three wild edible mushrooms. <i>Food Chemistry</i> , 2014 , 157, 323-31	8.5	45
48	Study on adsorption, regeneration, and reuse of crosslinked chitosan graft copolymers for Cu(II) ion removal from aqueous solutions. <i>Desalination and Water Treatment</i> , 2014 , 52, 3246-3255		15
47	Novel oxime based flavanone, naringin-oxime: synthesis, characterization and screening for antioxidant activity. <i>Chemico-Biological Interactions</i> , 2014 , 212, 40-6	5	26
46	TOTAL ANTIOXIDANT CAPACITY AND PHENOLIC CONTENTS OF TURKISH HAZELNUT (CORYLUS AVELLANA L.) KERNELS AND OILS. <i>Journal of Food Biochemistry</i> , 2013 , 37, 53-61	3.3	17
45	Novel optical fiber reflectometric CUPRAC sensor for total antioxidant capacity measurement of food extracts and biological samples. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 8381-8	5.7	18
44	Novel pro-oxidant activity assay for polyphenols, vitamins C and E using a modified CUPRAC method. <i>Talanta</i> , 2013 , 115, 583-9	6.2	25
43	Selective optical sensing of biothiols with Ellman's reagent: 5,5'-Dithio-bis(2-nitrobenzoic acid)-modified gold nanoparticles. <i>Analytica Chimica Acta</i> , 2013 , 794, 90-8	6.6	36
42	Methods of measurement and evaluation of natural antioxidant capacity/activity (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2013 , 85, 957-998	2.1	320
41	Direct measurement of total antioxidant capacity of cereals: QUENCHER-CUPRAC method. <i>Talanta</i> , 2013 , 108, 136-42	6.2	45
40	Synthesis, characterization and antioxidant capacity of naringenin-oxime. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 85, 235-40	4.4	24
39	Resorcinol as a spectrofluorometric probe for the hypochlorous acid scavenging activity assay of biological samples. <i>Analytical Chemistry</i> , 2012 , 84, 9529-36	7.8	20
38	Novel spectroscopic sensor for the hydroxyl radical scavenging activity measurement of biological samples. <i>Talanta</i> , 2012 , 99, 689-96	6.2	13
37	Development of a silver nanoparticle-based method for the antioxidant capacity measurement of polyphenols. <i>Analytical Chemistry</i> , 2012 , 84, 8052-9	7.8	102
36	Determination of biothiols by a novel on-line HPLC-DTNB assay with post-column detection. <i>Analytica Chimica Acta</i> , 2012 , 750, 173-81	6.6	45
35	Differences in responsivity of original cupric reducing antioxidant capacity and cupric-bathocuproine sulfonate assays to antioxidant compounds. <i>Analytical Biochemistry</i> , 2012 , 423, 36-8	3.1	13

34	Comparative evaluation of antioxidant capacities of thiol-based antioxidants measured by different in vitro methods. <i>Talanta</i> , 2011 , 83, 1650-8	6.2	44
33	A comprehensive review of CUPRAC methodology. <i>Analytical Methods</i> , 2011 , 3, 2439	3.2	85
32	tert-Butylhydroquinone as a spectroscopic probe for the superoxide radical scavenging activity assay of biological samples. <i>Analytical Chemistry</i> , 2011 , 83, 5652-60	7.8	38
31	Spectroscopic study and antioxidant properties of the inclusion complexes of rosmarinic acid with natural and derivative cyclodextrins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 1615-24	4.4	46
30	The main and modified CUPRAC methods of antioxidant measurement. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 652-664	14.6	91
29	Development of a low-cost optical sensor for cupric reducing antioxidant capacity measurement of food extracts. <i>Analytical Chemistry</i> , 2010 , 82, 4252-8	7.8	53
28	Solvent effects on the antioxidant capacity of lipophilic and hydrophilic antioxidants measured by CUPRAC, ABTS/persulphate and FRAP methods. <i>Talanta</i> , 2010 , 81, 1300-9	6.2	93
27	Tumor specific cytotoxicity and telomerase down-regulation in prostate cancer by autologous dendritic cells loaded with whole tumor cell antigens. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2010 , 28, 290-5	2.8	2
26	Removal of Cu ²⁺ and Pb ²⁺ ions from aqueous solutions by starch-graft-acrylic acid/montmorillonite superabsorbent nanocomposite hydrogels. <i>Polymer Bulletin</i> , 2010 , 65, 333-346	2.4	128
25	Polyphenolic contents of natural dyes produced from industrial plants assayed by HPLC and novel spectrophotometric methods. <i>Industrial Crops and Products</i> , 2010 , 32, 499-506	5.9	21
24	A novel hydrogen peroxide scavenging assay of phenolics and flavonoids using cupric reducing antioxidant capacity (CUPRAC) methodology. <i>Journal of Food Composition and Analysis</i> , 2010 , 23, 689-698 ¹	4.1	60
23	Determination of antioxidants by a novel on-line HPLC-cupric reducing antioxidant capacity (CUPRAC) assay with post-column detection. <i>Analytica Chimica Acta</i> , 2010 , 674, 79-88	6.6	67
22	Cupric ion reducing antioxidant capacity assay for antioxidants in human serum and for hydroxyl radical scavengers. <i>Methods in Molecular Biology</i> , 2010 , 594, 215-39	1.4	23
21	Measurement of xanthine oxidase inhibition activity of phenolics and flavonoids with a modified cupric reducing antioxidant capacity (CUPRAC) method. <i>Analytica Chimica Acta</i> , 2009 , 636, 42-50	6.6	70
20	A new cause of male infertility after cisplatin exposure: the effect of cisplatin on Y chromosomes. <i>Urology</i> , 2009 , 73, 1145-9	1.6	
19	Antioxidant Capacities of Some Food Plants Wildly Grown in Ayvalik of Turkey. <i>Food Science and Technology Research</i> , 2009 , 15, 59-64	0.8	33
18	Cupric ion reducing antioxidant capacity assay for food antioxidants: vitamins, polyphenolics, and flavonoids in food extracts. <i>Methods in Molecular Biology</i> , 2008 , 477, 163-93	1.4	38
17	Hydroxyl radical detection with a salicylate probe using modified CUPRAC spectrophotometry and HPLC. <i>Talanta</i> , 2008 , 77, 90-7	6.2	29

16	Antioxidant Capacities of Herbal Plants Used in the Manufacture of Van Herby Cheese: Dtlu Peynir <i>International Journal of Food Properties</i> , 2008 , 11, 747-761	3	24
15	Hydroxyl radical scavenging assay of phenolics and flavonoids with a modified cupric reducing antioxidant capacity (CUPRAC) method using catalase for hydrogen peroxide degradation. <i>Analytica Chimica Acta</i> , 2008 , 616, 196-206	6.6	98
14	Mechanism of antioxidant capacity assays and the CUPRAC (cupric ion reducing antioxidant capacity) assay. <i>Mikrochimica Acta</i> , 2008 , 160, 413-419	5.8	325
13	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. <i>Analytica Chimica Acta</i> , 2008 , 630, 28-39	6.6	58
12	Spectrophotometric determination of ascorbic acid by the modified CUPRAC method with extractive separation of flavonoids-La(III) complexes. <i>Analytica Chimica Acta</i> , 2007 , 588, 88-95	6.6	109
11	Sensitivity enhancement of CUPRAC and iron(III)-phenanthroline antioxidant assays by preconcentration of colored reaction products on a weakly acidic cation exchanger. <i>Reactive and Functional Polymers</i> , 2007 , 67, 1478-1486	4.6	11
10	CUPRAC total antioxidant capacity assay of lipophilic antioxidants in combination with hydrophilic antioxidants using the macrocyclic oligosaccharide methyl β -cyclodextrin as the solubility enhancer. <i>Reactive and Functional Polymers</i> , 2007 , 67, 1548-1560	4.6	20
9	Comparative evaluation of various total antioxidant capacity assays applied to phenolic compounds with the CUPRAC assay. <i>Molecules</i> , 2007 , 12, 1496-547	4.8	565
8	The cupric ion reducing antioxidant capacity and polyphenolic content of some herbal teas. <i>International Journal of Food Sciences and Nutrition</i> , 2006 , 57, 292-304	3.7	289
7	Antioxidant capacity of fresh, sun- and sulphited-dried Malatya apricot (<i>Prunus armeniaca</i>) assayed by CUPRAC, ABTS/TEAC and folin methods. <i>International Journal of Food Science and Technology</i> , 2006 , 41, 76-85	3.8	81
6	Novel hydroxyl radical scavenging antioxidant activity assay for water-soluble antioxidants using a modified CUPRAC method. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 345, 1194-200	3.4	81
5	Spectrophotometric determination of ascorbic acid using copper(II)-neocuproine reagent in beverages and pharmaceuticals. <i>Talanta</i> , 2005 , 65, 1226-32	6.2	92
4	Total antioxidant capacity assay of human serum using copper(II)-neocuproine as chromogenic oxidant: the CUPRAC method. <i>Free Radical Research</i> , 2005 , 39, 949-61	4	195
3	Comparison of microvessel densities in rat prostate tissues treated with finasteride, bicalutamide and surgical castration: a preliminary study. <i>International Journal of Urology</i> , 2005 , 12, 194-8	2.3	10
2	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. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 7970-81	5.7	1315
1	Protective effects of <i>Salvia officinalis</i> extract against cyclophosphamide-induced genotoxicity and oxidative stress in rats		4