

S Z Bathaie

List of Publications by Citations

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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.

113
papers

2,962
citations

32
h-index

50
g-index

127
ext. papers

3,339
ext. citations

4.5
avg, IF

5.42
L-index

#	Paper	IF	Citations
113	New applications and mechanisms of action of saffron and its important ingredients. <i>Critical Reviews in Food Science and Nutrition</i> , 2010 , 50, 761-86	11.5	163
112	Electrochemical aptamer/antibody based sandwich immunosensor for the detection of EGFR, a cancer biomarker, using gold nanoparticles as a signaling probe. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 491-7	11.8	129
111	Electrochemically fabricated polypyrrole nanofiber-modified electrode as a new electrochemical DNA biosensor. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1825-31	11.8	121
110	Crocin triggers the apoptosis through increasing the Bax/Bcl-2 ratio and caspase activation in human gastric adenocarcinoma, AGS, cells. <i>DNA and Cell Biology</i> , 2013 , 32, 50-7	3.6	117
109	Saffron and natural carotenoids: Biochemical activities and anti-tumor effects. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2014 , 1845, 20-30	11.2	112
108	Effect of crocin on the insulin resistance and lipid profile of streptozotocin-induced diabetic rats. <i>Phytotherapy Research</i> , 2013 , 27, 1042-7	6.7	107
107	Interaction of saffron carotenoids as anticancer compounds with ctDNA, Oligo (dG.dC) ₁₅ , and Oligo (dA.dT) ₁₅ . <i>DNA and Cell Biology</i> , 2007 , 26, 533-40	3.6	89
106	Anticancer effects of crocetin in both human adenocarcinoma gastric cancer cells and rat model of gastric cancer. <i>Biochemistry and Cell Biology</i> , 2013 , 91, 397-403	3.6	79
105	Effect of exposure parameters on cavitation induced by low-level dual-frequency ultrasound. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 783-9	8.9	73
104	Electrocatalytic oxidation of glucose at a Ni-curcumin modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2006 , 11, 273-282	2.6	65
103	Energetic and binding properties of DNA upon interaction with dodecyl trimethylammonium bromide. <i>Nucleic Acids Research</i> , 1999 , 27, 1001-5	20.1	64
102	Mevalonate Pathway and Human Cancers. <i>Current Molecular Pharmacology</i> , 2017 , 10, 77-85	3.7	61
101	A review of the chemistry and uses of crocins and crocetin, the carotenoid natural dyes in saffron, with particular emphasis on applications as colorants including their use as biological stains. <i>Biotechnic and Histochemistry</i> , 2014 , 89, 401-11	1.8	60
100	Microcalorimetry, energetics and binding studies of DNA–dimethyltin dichloride complexes. <i>Thermochimica Acta</i> , 2004 , 414, 233-241	2.9	56
99	Retinoids and their biological effects against cancer. <i>International Immunopharmacology</i> , 2014 , 18, 43-9	5.8	55
98	The protective effect of crocin on the amyloid fibril formation of A β 2 peptide in vitro. <i>Cellular and Molecular Biology Letters</i> , 2013 , 18, 328-39	8.1	50
97	The effect of carotenoids obtained from saffron on histone H1 structure and H1-DNA interaction. <i>International Journal of Biological Macromolecules</i> , 2005 , 36, 246-52	7.9	50

96	Saffron Aqueous Extract Inhibits the Chemically-induced Gastric Cancer Progression in the Wistar Albino Rat. <i>Iranian Journal of Basic Medical Sciences</i> , 2013 , 16, 27-38	1.8	47
95	Electrochemical investigation of neutral red binding to DNA at the surface. <i>Electrochemistry Communications</i> , 2004 , 6, 1114-1118	5.1	46
94	Immunosuppressive activity of a molecule isolated from <i>Artemisia annua</i> on DTH responses compared with cyclosporin A. <i>International Immunopharmacology</i> , 2004 , 4, 1301-6	5.8	44
93	Glycine therapy inhibits the progression of cataract in streptozotocin-induced diabetic rats. <i>Molecular Vision</i> , 2012 , 18, 439-48	2.3	44
92	Recent progress in the study of the Rheb family GTPases. <i>Cellular Signalling</i> , 2014 , 26, 1950-7	4.9	43
91	Saffron aqueous extract prevents metabolic syndrome in patients with schizophrenia on olanzapine treatment: a randomized triple blind placebo controlled study. <i>Pharmacopsychiatry</i> , 2014 , 47, 156-61	2	43
90	DNA immobilization on a polypyrrole nanofiber modified electrode and its interaction with salicylic acid/ aspirin. <i>Analytical Biochemistry</i> , 2011 , 411, 176-84	3.1	41
89	Effect of Crocin on Cell Cycle Regulators in N-Nitroso-N-Methylurea-Induced Breast Cancer in Rats. <i>DNA and Cell Biology</i> , 2015 , 34, 684-91	3.6	38
88	The improvement effect of L-Lys as a chemical chaperone on STZ-induced diabetic rats, protein structure and function. <i>Diabetes/Metabolism Research and Reviews</i> , 2008 , 24, 64-73	7.5	37
87	Studies on mechanism of 8-methoxypsoralen-DNA interaction in the dark. <i>International Journal of Pharmaceutics</i> , 2002 , 237, 47-55	6.5	37
86	Electrochemical studies of DNA immobilization onto the azide-terminated monolayers and its interaction with taxol. <i>Analytical Biochemistry</i> , 2008 , 375, 331-8	3.1	36
85	Electrochemical DNA nano-biosensor for the study of spermidine-DNA interaction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009 , 49, 587-93	3.5	35
84	Studies of thermostability in <i>Camelus bactrianus</i> (Bactrian camel) single-domain antibody specific for the mutant epidermal-growth-factor receptor expressed by <i>Pichia</i> . <i>Biotechnology and Applied Biochemistry</i> , 2007 , 46, 41-9	2.8	35
83	Enhancement and control of acoustic cavitation yield by low-level dual frequency sonication: a subharmonic analysis. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 394-400	8.9	34
82	Treatment of murine tumors using dual-frequency ultrasound in an experimental in vivo model. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 756-63	3.5	33
81	Crocin improved locomotor function and mechanical behavior in the rat model of contused spinal cord injury through decreasing calcitonin gene related peptide (CGRP). <i>Phytomedicine</i> , 2013 , 21, 62-7	6.5	32
80	Effect of spermine on lipid profile and HDL functionality in the streptozotocin-induced diabetic rat model. <i>Life Sciences</i> , 2008 , 82, 301-7	6.8	32
79	A novel potentiometric sensor for selective determination of theophylline: Theoretical and practical investigations. <i>Analytica Chimica Acta</i> , 2005 , 548, 192-198	6.6	32

78	Cadmium nanoclusters in a protein matrix: Synthesis, characterization, and application in targeted drug delivery and cellular imaging. <i>Nano Research</i> , 2016 , 9, 3229-3246	10	32
77	Is there any interaction between telomeric DNA structures, G-quadruplex and I-motif, with saffron active metabolites?. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2012 , 31, 801-12	1.4	28
76	Investigation of the mechanisms involved in the high-dose and long-term acetyl salicylic acid therapy of type I diabetic rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 324, 850-7	4.7	28
75	The effect of hot-tub therapy on serum Hsp70 level and its benefit on diabetic rats: a preliminary report. <i>International Journal of Hyperthermia</i> , 2010 , 26, 577-85	3.7	27
74	Effect of local dual frequency sonication on drug distribution from polymeric nanomicelles. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 1165-71	8.9	27
73	Interaction of an Fe derivative of TMAP (Fe(TMAP)OAc) with DNA in comparison with free-base TMAP. <i>International Journal of Biological Macromolecules</i> , 2007 , 41, 173-9	7.9	27
72	Saffron and crocin improved appetite, dietary intakes and body composition in patients with coronary artery disease. <i>Journal of Cardiovascular and Thoracic Research</i> , 2017 , 9, 200-208	1.3	26
71	Interaction of safranal and picrocrocin with ctDNA and their preferential mechanisms of binding to GC- and AT-rich oligonucleotides. <i>DNA and Cell Biology</i> , 2008 , 27, 665-73	3.6	24
70	An electrochemical study of neutral red-DNA interaction. <i>Electrochimica Acta</i> , 2005 , 51, 1108-1116	6.7	23
69	Histone H1 structural changes and its interaction with DNA in the presence of high glucose concentration in vivo and in vitro. <i>Journal of Biomolecular Structure and Dynamics</i> , 2011 , 28, 575-86	3.6	22
68	The dual behavior of heat shock protein 70 and asymmetric dimethylarginine in relation to serum CRP levels in type 2 diabetes. <i>Gene</i> , 2012 , 498, 107-11	3.8	21
67	The synergistic effect of antiglycating agents (MB-92) on inhibition of protein glycation, misfolding and diabetic complications in diabetic-atherosclerotic rat. <i>European Journal of Medicinal Chemistry</i> , 2016 , 121, 892-902	6.8	20
66	Effects of crocin and saffron aqueous extract on gene expression of SIRT1, AMPK, LOX1, NF- κ B, and MCP-1 in patients with coronary artery disease: A randomized placebo-controlled clinical trial. <i>Phytotherapy Research</i> , 2020 , 34, 1114-1122	6.7	20
65	Spectroscopic studies of the interaction of aspirin and its important metabolite, salicylate ion, with DNA, A Γ and G Γ rich sequences. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 1077-83	4.4	19
64	Evaluation of correlation between chemical dosimetry and subharmonic spectrum analysis to examine the acoustic cavitation. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 863-9	8.9	19
63	A mechanistic study of the histone H1-DNA complex dissociation by sodium dodecyl sulfate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003 , 28, 17-25	6	19
62	Inhibitory Effect of Crocin(s) on Lens β -Crystallin Glycation and Aggregation, Results in the Decrease of the Risk of Diabetic Cataract. <i>Molecules</i> , 2016 , 21, 143	4.8	19
61	A new DNA-nanobiosensor based on G-quadruplex immobilized on carbon nanotubes modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2012 , 82, 143-151	6.7	18

60	Mechanisms of the Effects of Crocin on Aggregation and Deposition of A β 40 Fibrils in Alzheimer's Disease. <i>International Journal of Peptide Research and Therapeutics</i> , 2012 , 18, 347-351	2.1	17
59	Effect of chemical chaperones on glucose-induced lysozyme modifications. <i>Protein Journal</i> , 2011 , 30, 480-9	3.9	17
58	Aptamer-functionalized Fe ₃ O ₄ @MOF nanocarrier for targeted drug delivery and fluorescence imaging of the triple-negative MDA-MB-231 breast cancer cells. <i>Journal of Solid State Chemistry</i> , 2020 , 292, 121680	3.3	17
57	Cytosolic and mitochondrial ROS production resulted in apoptosis induction in breast cancer cells treated with Crocin: The role of FOXO3a, PTEN and AKT signaling. <i>Biochemical Pharmacology</i> , 2020 , 177, 113999	6	16
56	Bioinformatic prediction and experimental validation of a PE38-based recombinant immunotoxin targeting the Fn14 receptor in cancer cells. <i>Immunotherapy</i> , 2017 , 9, 387-400	3.8	14
55	Comparative Study on The Preventive Effect of Saffron Carotenoids, Crocin and Crocetin, in NMU-Induced Breast Cancer in Rats. <i>Cell Journal</i> , 2017 , 19, 94-101	2.4	14
54	Saffron carotenoids (crocin and crocetin) binding to human serum albumin as investigated by different spectroscopic methods and molecular docking. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 1681-1690	3.6	13
53	Investigation of the mechanism(s) involved in decreasing increased fibrinogen activity in hyperglycemic conditions using L-lysine supplementation. <i>Thrombosis Research</i> , 2012 , 130, e13-9	8.2	13
52	Effects of Saffron Aqueous Extract and Its Main Constituent, Crocin, on Health-Related Quality of Life, Depression, and Sexual Desire in Coronary Artery Disease Patients: A Double-Blind, Placebo-Controlled, Randomized Clinical Trial. <i>Iranian Red Crescent Medical Journal</i> , 2017 , 19,	1.3	13
51	L-cysteine is a potent inhibitor of protein glycation on both albumin and LDL, and prevents the diabetic complications in diabetic atherosclerotic rat. <i>Food Research International</i> , 2014 , 62, 909-916	7	12
50	Chemo-immunotherapy using saffron and its ingredients followed by E7-NT (gp96) DNA vaccine generates different anti-tumor effects against tumors expressing the E7 protein of human papillomavirus. <i>Archives of Virology</i> , 2015 , 160, 499-508	2.6	12
49	Anticancer Effect and Molecular Targets of Saffron Carotenoids. <i>The Enzymes</i> , 2014 , 36, 57-86	2.3	12
48	Novel imidazolyl derivatives of 1,8-acridinedione as potential DNA-intercalating agents. <i>Journal of the Iranian Chemical Society</i> , 2011 , 8, 1098-1112	2	12
47	The Preventive Effect of L-Lysine on Lysozyme Glycation in Type 2 Diabetes. <i>Acta Medica Iranica</i> , 2016 , 54, 24-31		12
46	Prevention of β -crystallin glycation and aggregation using l-lysine results in the inhibition of in vitro catalase heat-induced-aggregation and suppression of cataract formation in the diabetic rat. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 1200-1207	7.9	11
45	Saffron carotenoids change the superoxide dismutase activity in breast cancer: In vitro, in vivo and in silico studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 845-853	7.9	11
44	Different Pain States of Trigeminal Neuralgia Make Significant Changes in the Plasma Proteome and Some Biochemical Parameters: a Preliminary Cohort Study. <i>Journal of Molecular Neuroscience</i> , 2018 , 66, 524-534	3.3	11
43	Preparation of a new nanobiosensor for the determination of some biogenic polyamines and investigation of their interaction with DNA. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 767-73	11.8	10

42	Structural study on immunoglobulin G solution after pasteurization with and without stabilizer. <i>Transfusion Medicine</i> , 2008 , 18, 62-70	1.3	10
41	Design and characterization of a chimeric multi-epitope construct containing CfaB, heat-stable toxin, CstA, CstB, and heat-labile toxin subunit B of enterotoxigenic <i>Escherichia coli</i> : a bioinformatic approach. <i>Biotechnology and Applied Biochemistry</i> , 2014 , 61, 517-27	2.8	9
40	How Phytochemicals Prevent Chemical Carcinogens and/or Suppress Tumor Growth?. <i>The Enzymes</i> , 2015 , 37, 1-42	2.3	8
39	Comparison of the Chaperoning Action of Glycerol and β -Casein on Aggregation of Proteins in the Presence of Crowding Agent. <i>International Journal of Peptide Research and Therapeutics</i> , 2011 , 17, 101-111	2.1	8
38	Interaction Between DNA and Some Salicylic Acid Derivatives and Characterization of Their DNA Targets. <i>Electroanalysis</i> , 2013 , 25, 2547-2556	3	7
37	BSA-templated Pb Nanocluster as a Biocompatible Signaling Probe for Electrochemical EGFR Immunosensing. <i>Electroanalysis</i> , 2017 , 29, 861-872	3	7
36	A noninvasive method for early detection of MNNG-induced gastric cancer of male Wistar rat: ultrasonic study. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 780-7	3.5	7
35	The effect of post-burn local hyperthermia on the reducing burn injury: the possible role of opioids. <i>International Journal of Hyperthermia</i> , 2006 , 22, 421-31	3.7	7
34	The effect of crocetin supplementation on markers of atherogenic risk in patients with coronary artery disease: a pilot, randomized, double-blind, placebo-controlled clinical trial. <i>Food and Function</i> , 2019 , 10, 7461-7475	6.1	7
33	Interaction of saffron carotenoids with catalase: and molecular docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020 , 38, 3916-3926	3.6	7
32	Probing redox reaction of azurin protein immobilized on hydroxyl-terminated self-assembled monolayers with different lengths. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 755, 27-38	4.1	6
31	Isolation and characterization of the primary epithelial breast cancer cells and the adjacent normal epithelial cells from Iranian women's breast cancer tumors. <i>Cytotechnology</i> , 2018 , 70, 625-639	2.2	6
30	Comparative study of the interaction of meso-tetrakis (N-para-trimethyl-anilium) porphyrin (TMAP) in its free base and Fe derivative form with oligo(dA.dT)15 and oligo(dG.dC)15. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015 , 33, 1598-611	3.6	6
29	In Situ Synthesis of a Novel Quinone Imine Self-Assembled Monolayer and Consideration of Its Reactivity with L-Arginine. <i>Electroanalysis</i> , 2012 , 24, 1362-1373	3	6
28	Preparation, purification and virus inactivation of intravenous immunoglobulin from human plasma. <i>Human Antibodies</i> , 2010 , 19, 1-6	1.3	6
27	Spectroscopic studies of STZ-induced methylated-DNA in both in vivo and in vitro conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 803-8	4.4	6
26	L-lysine protects C2C12 myotubes and 3T3-L1 adipocytes against high glucose damages and stresses. <i>PLoS ONE</i> , 2019 , 14, e0225912	3.7	6
25	Homogenate Extraction of Crocins from Saffron Optimized by Response Surface Methodology. <i>Journal of Chemistry</i> , 2018 , 2018, 1-6	2.3	6

24	Semi-empirical quantum chemical study of the interactions between lysine, arginine and histidine with a homologue set of n-alkyl sulfates in the gas phase and aqueous solution. <i>Computational and Theoretical Chemistry</i> , 2004 , 678, 163-169		5
23	The Role of BiP and the IRE1/XBP1 Axis in Rhabdomyosarcoma Pathology. <i>Cancers</i> , 2021 , 13,	6.6	4
22	Design and expression of a chimeric vaccine candidate for avian necrotic enteritis. <i>Protein Engineering, Design and Selection</i> , 2017 , 30, 39-45	1.9	3
21	Role of Amino Acids on Prevention of Nonenzymatic Glycation of Lens Proteins in Senile and Diabetic Cataract 2014 , 141-155		3
20	Inactivation of virus in intravenous immunoglobulin G using solvent/detergent treatment and pasteurization. <i>Human Antibodies</i> , 2008 , 17, 79-84	1.3	3
19	Theoretical investigation on the binding of lysine-containing peptides with dodecyl sulfate ion using semi-empirical calculations. <i>Computational and Theoretical Chemistry</i> , 2007 , 806, 205-211		3
18	The mechanism of hVKOR interaction with acetaminophen and its metabolite, as well as N-acetyl cysteine: caution on application in COVID-19 patients. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-12	3.6	3
17	Dual-frequency ultrasound activation of nanomicellar doxorubicin in targeted tumor chemotherapy. <i>Journal of Medical Ultrasonics (2001)</i> , 2014 , 41, 139-50	1.4	2
16	Effect of fractionation on treatment outcome in local dual-frequency sonication and Dox-encapsulated nanomicelles. <i>Journal of Medical Ultrasonics (2001)</i> , 2013 , 40, 303-8	1.4	2
15	Effect of crocin and crocetin on EDA activity in NMU-induced breast cancer in rat. <i>Clinical Biochemistry</i> , 2011 , 44, S27	3.5	2
14	L-lysine supplementation improved glycemic control, decreased protein glycation, and insulin resistance in type 2 diabetic patients. <i>International Journal of Diabetes in Developing Countries</i> ,1	0.8	2
13	Saffron as a functional food and a nutraceutical using saffron and its constituents as the nutraceuticals to protect against chronic diseases. <i>Acta Horticulturae</i> , 2018 , 201-204	0.3	2
12	DNA as an enzyme. The effect of imidazole derivatives as cofactors and metal ions as activators or inhibitors. <i>Clinical Biochemistry</i> , 2003 , 36, 353-8	3.5	1
11	Crocetin ameliorates non-alcoholic fatty liver disease by modulating mitochondrial dysfunction in L02 cells and zebrafish model. <i>Journal of Ethnopharmacology</i> , 2021 , 285, 114873	5	1
10	Comparison of the proteome patterns of adipose-derived stem cells with those treated with selegiline using a two dimensional gel electrophoresis analysis. <i>Biotechnic and Histochemistry</i> , 2020 , 95, 176-185	1.8	1
9	Possible role of WNT10B in increased proliferation and tubule formation of human umbilical vein endothelial cell cultures treated with hypoxic conditioned medium from human adipocytes. <i>Biotechnic and Histochemistry</i> , 2021 , 1-12	1.8	0
8	Role of Amino Acids on Prevention of Lens Proteins Nonenzymatic Glycation In Vitro, in Senile, and Diabetic Cataract 2019 , 245-270		
7	Introduction. <i>The Enzymes</i> , 2014 , 36, 1-6	2.3	

- 6 L-lysine protects C2C12 myotubes and 3T3-L1 adipocytes against high glucose damages and stresses **2019**, 14, e0225912
- 5 L-lysine protects C2C12 myotubes and 3T3-L1 adipocytes against high glucose damages and stresses **2019**, 14, e0225912
- 4 L-lysine protects C2C12 myotubes and 3T3-L1 adipocytes against high glucose damages and stresses **2019**, 14, e0225912
- 3 L-lysine protects C2C12 myotubes and 3T3-L1 adipocytes against high glucose damages and stresses **2019**, 14, e0225912
- 2 L-lysine protects C2C12 myotubes and 3T3-L1 adipocytes against high glucose damages and stresses **2019**, 14, e0225912
- 1 L-lysine protects C2C12 myotubes and 3T3-L1 adipocytes against high glucose damages and stresses **2019**, 14, e0225912