

# Masoud Torkzadeh-Mahani

## List of Publications by Year in descending order

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80  
papers

2,516  
citations

172207

29  
h-index

223531

46  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2897  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled release of lawsone from polycaprolactone/gelatin electrospun nano fibers for skin tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2019, 124, 478-491.	3.6	118
2	DNA- and BSA-binding studies and anticancer activity against human breast cancer cells (MCF-7) of the zinc(II) complex coordinated by 5,6-diphenyl-3-(2-pyridyl)-1,2,4-triazine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 127, 511-520.	2.0	117
3	Lawsone-loaded Niosome and its antitumor activity in MCF-7 breast Cancer cell line: a Nano-herbal treatment for Cancer. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2018, 26, 11-17.	0.9	102
4	Evaluation of Carum-loaded Niosomes on Breast Cancer Cells: Physicochemical Properties, In Vitro Cytotoxicity, Flow Cytometric, DNA Fragmentation and Cell Migration Assay. <i>Scientific Reports</i> , 2019, 9, 7139.	1.6	93
5	Application of antibody-“nanogold”-ionic liquid-“carbon paste electrode for sensitive electrochemical immunoassay of thyroid-stimulating hormone. <i>Biosensors and Bioelectronics</i> , 2018, 110, 97-102.	5.3	87
6	In vitro cytotoxicity assay of D-limonene niosomes: an efficient nano-carrier for enhancing solubility of plant-extracted agents. <i>Research in Pharmaceutical Sciences</i> , 2019, 14, 448.	0.6	86
7	A mononuclear Cu(II) complex with 5,6-diphenyl-3-(2-pyridyl)-1,2,4-triazine: Synthesis, crystal structure, DNA- and BSA-binding, molecular modeling, and anticancer activity against MCF-7, A-549, and HT-29 cell lines. <i>European Journal of Medicinal Chemistry</i> , 2015, 96, 66-82.	2.6	81
8	In silico and in vitro study of magnetic niosomes for gene delivery: The effect of ergosterol and cholesterol. <i>Materials Science and Engineering C</i> , 2019, 94, 234-246.	3.8	73
9	Voltammetric determination of 6-thioguanine and folic acid using a carbon paste electrode modified with ZnO-CuO nanoplates and modifier. <i>Materials Science and Engineering C</i> , 2016, 69, 128-133.	3.8	68
10	MIAT lncRNA is overexpressed in breast cancer and its inhibition triggers senescence and G1 arrest in MCF7 cell line. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 6470-6481.	1.2	67
11	Magnetic delivery of antitumor carboplatin by using PEGylated-Niosomes. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2018, 26, 57-64.	0.9	66
12	A new formulation of hydrophobin-coated niosome as a drug carrier to cancer cells. <i>Materials Science and Engineering C</i> , 2020, 113, 110975.	3.8	64
13	A magnetic core-shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> /MWCNT nanocomposite modified carbon paste electrode for amplified electrochemical sensing of amlodipine and hydrochlorothiazide. <i>Analytical Methods</i> , 2016, 8, 6185-6193.	1.3	63
14	Synthesis, characterization, X-ray crystal structure, DFT calculation, DNA binding, and antimicrobial assays of two new mixed-ligand copper(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 142, 410-422.	2.0	57
15	Biosynthesis of spinel nickel ferrite nanowhiskers and their biomedical applications. <i>Scientific Reports</i> , 2021, 11, 17431.	1.6	53
16	A mononuclear diketone-based oxido-vanadium( <sup>iv</sup> ) complex: structure, DNA and BSA binding, molecular docking and anticancer activities against MCF-7, HPG-2, and HT-29 cell lines. <i>RSC Advances</i> , 2015, 5, 101063-101075.	1.7	52
17	Electrochemical determination of hydrochlorothiazide and folic acid in real samples using a modified graphene oxide sheet paste electrode. <i>Materials Science and Engineering C</i> , 2015, 52, 297-305.	3.8	50
18	Accumulation and phytoremediation of Pb, Zn, and Ag by plants growing on Koshk lead-zinc mining area, Iran. <i>Journal of Soils and Sediments</i> , 2017, 17, 1310-1320.	1.5	50

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19	Bimetallic nickel-ferrite nanorod particles: greener synthesis using rosemary and its biomedical efficiency. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2020, 48, 242-251.	1.9	49
20	Diosgenin-loaded niosome as an effective phytochemical nanocarrier: physicochemical characterization, loading efficiency, and cytotoxicity assay. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2019, 27, 329-339.	0.9	48
21	In vitro and in silico studies of the interaction of three tetrazoloquinazoline derivatives with DNA and BSA and their cytotoxicity activities against MCF-7, HT-29 and DPSC cell lines. <i>International Journal of Biological Macromolecules</i> , 2017, 94, 85-95.	3.6	46
22	A mononuclear Ni(II) complex with 5,6-diphenyl-3-(2-pyridyl)-1,2,4-triazine: DNA- and BSA-binding and anticancer activity against human breast carcinoma cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 205-215.	2.0	44
23	Synthesis and characterization of aminotetrazole-functionalized magnetic chitosan nanocomposite as a novel nanocarrier for targeted gene delivery. <i>Materials Science and Engineering C</i> , 2018, 89, 166-174.	3.8	43
24	Amperometric immunosensor for prolactin hormone measurement using antibodies loaded on a nano-Au monolayer modified ionic liquid carbon paste electrode. <i>Talanta</i> , 2018, 188, 701-707.	2.9	43
25	Synthesis, characterization, crystal structure, DNA and BSA binding, molecular docking and in vitro anticancer activities of a mononuclear dioxido-uranium(VI) complex derived from a tridentate ONO aroylhydrazone. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 158, 219-227.	1.7	41
26	A Novel Strategy for Simultaneous Determination of Dopamine and Uric Acid Using a Carbon Paste Electrode Modified with CdTe Quantum Dots. <i>Electroanalysis</i> , 2015, 27, 524-533.	1.5	39
27	A combined theoretical and experimental study to improve the thermal stability of recombinant D-lactate dehydrogenase immobilized on a novel superparamagnetic Fe <sub>3</sub> O <sub>4</sub> NPs@metal-organic framework. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5581.	1.7	38
28	In vitro DNA and BSA-binding, cell imaging and anticancer activity against human carcinoma cell lines of mixed ligand copper(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 390-402.	2.0	35
29	The effect of different percentages of triethanolammonium butyrate ionic liquid on the structure and activity of urate oxidase: Molecular docking, molecular dynamics simulation, and experimental study. <i>Journal of Molecular Liquids</i> , 2019, 292, 111318.	2.3	35
30	Evaluation of serum arsenic and its effects on antioxidant alterations in relapsing-remitting multiple sclerosis patients. <i>Multiple Sclerosis and Related Disorders</i> , 2018, 19, 79-84.	0.9	30
31	Voltammetric behavior of uric acid on carbon paste electrode modified with salmon sperm dsDNA and its application as label-free electrochemical sensor. <i>Biosensors and Bioelectronics</i> , 2014, 54, 211-216.	5.3	28
32	Electrochemical determination of biophenol oleuropein using a simple label-free DNA biosensor. <i>Bioelectrochemistry</i> , 2015, 101, 52-57.	2.4	26
33	Development of a localized surface plasmon resonance-based gold nanobiosensor for the determination of prolactin hormone in human serum. <i>Analytical Biochemistry</i> , 2016, 495, 32-36.	1.1	25
34	Evaluation of lithium serum level in multiple sclerosis patients: A neuroprotective element. <i>Multiple Sclerosis and Related Disorders</i> , 2017, 17, 244-248.	0.9	25
35	Stabilization of d-lactate dehydrogenase diagnostic enzyme via immobilization on pristine and carboxyl-functionalized carbon nanotubes, a combined experimental and molecular dynamics simulation study. <i>Archives of Biochemistry and Biophysics</i> , 2019, 661, 178-186.	1.4	24
36	Cadmium sulfide quantum dots modified with the human transferrin protein siderophile for targeted imaging of breast cancer cells. <i>Mikrochimica Acta</i> , 2016, 183, 67-71.	2.5	22

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37	Aptamer-based determination of tumor necrosis factor $\hat{\pm}$ using a screen-printed graphite electrode modified with gold hexacyanoferrate. <i>Mikrochimica Acta</i> , 2018, 185, 165.	2.5	22
38	Enhancement of Thermostability of <i>Aspergillus flavus</i> Urate Oxidase by Immobilization on the Ni-Based Magnetic Metal-Organic Framework. <i>Nanomaterials</i> , 2021, 11, 1759.	1.9	22
39	Synthesis, crystal structure and Hirshfeld surface analysis of copper(II) complexes: DNA- and BSA-binding, molecular modeling, cell imaging and cytotoxicity. <i>Polyhedron</i> , 2016, 119, 23-38.	1.0	21
40	Niosomal virosome derived by vesicular stomatitis virus glycoprotein as a new gene carrier. <i>Biochemical and Biophysical Research Communications</i> , 2021, 534, 980-987.	1.0	21
41	Localized surface plasmon resonance based gold nanobiosensor: Determination of thyroid stimulating hormone. <i>Analytical Biochemistry</i> , 2017, 516, 1-5.	1.1	20
42	Competitive DNA-Binding Studies between Metal Complexes and GelRed as a New and Safe Fluorescent DNA Dye. <i>Journal of Fluorescence</i> , 2016, 26, 1505-1510.	1.3	19
43	Heterologous expression of a hydrophobin HFB1 and evaluation of its contribution to producing stable foam. <i>Protein Expression and Purification</i> , 2016, 118, 25-30.	0.6	19
44	Electrochemical sandwich immunoassay for the prostate specific antigen using a polyclonal antibody conjugated to thionine and horseradish peroxidase. <i>Mikrochimica Acta</i> , 2017, 184, 2731-2738.	2.5	18
45	Electrochemical aptasensor for tumor necrosis factor $\hat{\pm}$ using aptamer-antibody sandwich structure and cobalt hexacyanoferrate for signal amplification. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 1783-1791.	1.2	18
46	Silicon and nitric oxide synergistically modulate the production of essential oil and rosmarinic acid in <i>Salvia officinalis</i> under Cu stress. <i>Protoplasma</i> , 2022, 259, 905-916.	1.0	18
47	Bioactive anti-oxidative polycaprolactone/gelatin electrospun nanofibers containing selenium nanoparticles/vitamin E for wound dressing applications. <i>Journal of Biomaterials Applications</i> , 2021, 36, 193-209.	1.2	17
48	A selective and regenerable voltammetric aptasensor for determination of homocysteine. <i>Mikrochimica Acta</i> , 2016, 183, 2205-2210.	2.5	16
49	Electrochemical aptasensor for activated protein C using a gold nanoparticle Chitosan/graphene paste modified carbon paste electrode. <i>Bioelectrochemistry</i> , 2019, 130, 107322.	2.4	16
50	Tris-chelated complexes of nickel(II) with bipyridine derivatives: DNA binding and cleavage, BSA binding, molecular docking, and cytotoxicity. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 3887-3904.	2.0	15
51	Comprehensive Evaluation of Gene Expression in Negative and Positive Trigger-based Targeting Niosomes in HEK-293 Cell Line. <i>Iranian Journal of Pharmaceutical Research</i> , 2020, 19, 166-180.	0.3	15
52	Spectroscopic and electrochemical studies of the interaction between oleuropein, the major bio-phenol in olives, and salmon sperm DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 148, 260-265.	2.0	14
53	A hydrophobin-based-biosensor layered by an immobilized lactate dehydrogenase enzyme for electrochemical determination of pyruvate. <i>Bioelectrochemistry</i> , 2019, 130, 107323.	2.4	14
54	<i>In vitro</i> cytotoxicity studies of parent and nanoencapsulated Holmium-2,9-dimethyl-1,10-phenanthroline complex toward fish-salmon DNA-binding properties and antibacterial activity. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 4437-4449.	2.0	14

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55	Hydrophobin promotes thermostability of firefly luciferase. <i>FEBS Journal</i> , 2016, 283, 2494-2507.	2.2	13
56	Statistical optimization of kojic acid production by a UV-induced mutant strain of <i>Aspergillus terreus</i> . <i>Brazilian Journal of Microbiology</i> , 2018, 49, 865-871.	0.8	13
57	Optimization of in vitro refolding conditions of recombinant <i>Lepidium draba</i> peroxidase using design of experiments. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1369-1376.	3.6	13
58	Polycaprolactone/gelatin electrospun nanofibres containing biologically produced tellurium nanoparticles as a potential wound dressing scaffold: Physicochemical, mechanical, and biological characterisation. <i>IET Nanobiotechnology</i> , 2021, 15, 277-290.	1.9	13
59	Carbon quantum dots as Annexin V probe: photoinduced electron transfer mechanism, phosphatidylserine detection, and apoptotic cell imaging. <i>Mikrochimica Acta</i> , 2022, 189, 69.	2.5	12
60	Identification and characterization of a cathepsin L-like cysteine protease from <i>Rhipicephalus (Boophilus) annulatus</i> . <i>Experimental and Applied Acarology</i> , 2016, 68, 251-265.	0.7	11
61	Heterologous Expression, Purification and Characterization of a Peroxidase Isolated from <i>Lepidium draba</i> . <i>Protein Journal</i> , 2017, 36, 461-471.	0.7	11
62	An Electrochemical Immunosensor Based on Poly(Thionine)-Modified Carbon Paste Electrode for the Determination of Prostate Specific Antigen. <i>IEEE Sensors Journal</i> , 2018, 18, 4861-4868.	2.4	11
63	Antixenosis and antibiosis response of common bean ( <i>Phaseolus vulgaris</i> ) to two-spotted spider mite ( <i>Tetranychus urticae</i> ). <i>Experimental and Applied Acarology</i> , 2018, 74, 365-381.	0.7	11
64	Double strand DNA-based determination of menadione using a Fe <sub>3</sub> O <sub>4</sub> nanoparticle decorated reduced graphene oxide modified carbon paste electrode. <i>Bioelectrochemistry</i> , 2018, 124, 165-171.	2.4	11
65	Sonochemical Synthesis and Characterization of the Copper(II) Nanocomplex: DNA- and BSA-Binding, Cell Imaging, and Cytotoxicity Against the Human Carcinoma Cell Lines. <i>Journal of Fluorescence</i> , 2016, 26, 545-558.	1.3	10
66	Stabilization of recombinant d-Lactate dehydrogenase enzyme with trehalose: Response surface methodology and molecular dynamics simulation study. <i>Process Biochemistry</i> , 2021, 101, 26-35.	1.8	10
67	Synthesis and characterization of a novel organosilane-functionalized chitosan nanocarrier as an efficient gene delivery system: Expression of green fluorescent protein. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 143-148.	3.6	8
68	Effect of gamma-irradiation on electrochemical properties of ZnCo <sub>2</sub> O <sub>4</sub> -rGO for supercapacitor application. <i>Diamond and Related Materials</i> , 2022, 127, 109157.	1.8	8
69	From in vitro to in silico: Modeling and recombinant production of DT-Diaphorase enzyme. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 213-223.	3.6	7
70	New insight into the molecular mechanism of the trehalose effect on urate oxidase stability. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 1461-1471.	2.0	7
71	Improvement of kinetic properties and thermostability of recombinant <i>Lepidium draba</i> peroxidase (LDP) upon exposed to osmolytes. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 1036-1041.	3.6	6
72	The <i>Blepharis persica</i> seed hydroalcoholic extract synergistically enhances the apoptotic effect of doxorubicin in human colon cancer and gastric cancer cells. <i>Molecular Biology Reports</i> , 2020, 47, 843-853.	1.0	6

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73	The Zn(II) nanocomplex: Sonochemical synthesis, characterization, DNA- and BSA-binding, cell imaging, and cytotoxicity against the human carcinoma cell lines. <i>Journal of Fluorescence</i> , 2016, 26, 1007-1020.	1.3	5
74	In silico analysis of codon usage and rare codon clusters in the halophilic bacteria L-asparaginase. <i>Biologia (Poland)</i> , 2020, 75, 151-160.	0.8	5
75	Preparation and Characterization of ZnCo <sub>2</sub> O <sub>4</sub> as a Binary Transitional Metal Oxide Towards Pseudocapacitor Electrode Materials. <i>Brazilian Journal of Physics</i> , 2021, 51, 420-428.	0.7	5
76	Green and eco-friendly synthesis of silver nanoparticles by <i>Quercus infectoria</i> galls extract: thermal behavior, antibacterial, antioxidant and anticancer properties. <i>Particulate Science and Technology</i> , 0, , 1-9.	1.1	5
77	Design of a Sensitive and Selective Electrochemical Aptasensor for the Determination of the Complementary cDNA of miRNA-145 Based on the Intercalation and Electrochemical Reduction of Doxorubicin. <i>Journal of AOAC INTERNATIONAL</i> , 2017, 100, 1754-1760.	0.7	4
78	Genome-wide identification and characterization of legume T2 Ribonuclease gene family and analysis of GmaRNS9, a soybean T2 Ribonuclease gene, function in nodulation. <i>3 Biotech</i> , 2021, 11, 495.	1.1	3
79	Improvement Thermal Stability of d-Lactate Dehydrogenase by Hydrophobin-1 and in Silico Prediction of Protein-Protein Interactions. <i>Molecular Biotechnology</i> , 2021, 63, 919-932.	1.3	1
80	In Silico Analysis of Relative Rareness, Codon Usage, and Enzymesubstrate Docking of <i>Lampyroidea Maculata</i> luciferase. <i>Current Proteomics</i> , 2021, 18, 424-434.	0.1	0