

Gholamhossein Riazi

List of Publications by Citations

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104
papers

1,284
citations

20
h-index

30
g-index

110
ext. papers

1,510
ext. citations

3.6
avg, IF

4.6
L-index

#	Paper	IF	Citations
104	Toxicity and interaction of titanium dioxide nanoparticles with microtubule protein. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008 , 40, 777-782	2.8	107
103	Enzymatic synthesis of gold nanoparticles using sulfite reductase purified from Escherichia coli: A green eco-friendly approach. <i>Process Biochemistry</i> , 2015 , 50, 1076-1085	4.8	82
102	Antimicrobial activity and physical characterization of silver nanoparticles green synthesized using nitrate reductase from Fusarium oxysporum. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 4084-98 ^{3,2}	3.2	68
101	Effects of mobile phone radiofrequency on the structure and function of the normal human hemoglobin. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 278-85	7.9	41
100	TRPM2 dependence of ROS-induced NLRP3 activation in Alzheimer's disease. <i>International Immunopharmacology</i> , 2018 , 54, 78-85	5.8	37
99	Complex I deficiency in Persian multiple sclerosis patients. <i>Journal of the Neurological Sciences</i> , 2006 , 243, 65-9	3.2	36
98	New indole-based chalconoids as tubulin-targeting antiproliferative agents. <i>Bioorganic Chemistry</i> , 2017 , 75, 86-98	5.1	34
97	Antiproliferative activity of chloroformic extract of Persian Shallot, <i>Allium hirtifolium</i> , on tumor cell lines. <i>Cytotechnology</i> , 2008 , 56, 179-85	2.2	33
96	The enhancement effect of beta-boswellic acid on hippocampal neurites outgrowth and branching (an in vitro study). <i>Neurological Sciences</i> , 2010 , 31, 315-20	3.5	30
95	In vitro study on the alterations of brain tubulin structure and assembly affected by magnetite nanoparticles. <i>Journal of Biological Inorganic Chemistry</i> , 2013 , 18, 357-69	3.7	29
94	Design, synthesis, cytotoxic evaluation and tubulin inhibitory activity of 4-aryl-5-(3,4,5-trimethoxyphenyl)-2-alkylthio-1H-imidazole derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 2703-9	3.4	29
93	Vitamin B12 Inhibits Tau Fibrillization via Binding to Cysteine Residues of Tau. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 2676-2682	5.7	27
92	Synthesis, cytotoxic evaluation and molecular docking study of 2-alkylthio-4-(2,3,4-trimethoxyphenyl)-5-aryl-thiazoles as tubulin polymerization inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 7648-54	3.4	26
91	FGF10: Type III Epithelial Mesenchymal Transition and Invasion in Breast Cancer Cell Lines. <i>Journal of Cancer</i> , 2014 , 5, 537-47	4.5	26
90	Effect of N-homocysteinylation on physicochemical and cytotoxic properties of amyloid E peptide. <i>FEBS Letters</i> , 2012 , 586, 127-31	3.8	26
89	Inhibitory Effect of Crocin on Metastasis of Triple-Negative Breast Cancer by Interfering with Wnt/ β Catenin Pathway in Murine Model. <i>DNA and Cell Biology</i> , 2018 , 37, 1068-1075	3.6	26
88	A Comparative Study on Anti-Invasion, Antimigration, and Antiadhesion Effects of the Bioactive Carotenoids of Saffron on 4T1 Breast Cancer Cells Through Their Effects on Wnt/ β Catenin Pathway Genes. <i>DNA and Cell Biology</i> , 2018 , 37, 697-707	3.6	24

87	Induction of apoptosis through tubulin inhibition in human cancer cells by new chromene-based chalcones. <i>Pharmaceutical Biology</i> , 2012 , 50, 1551-60	3.8	24
86	Inhibitory effect of corcin on aggregation of 1N/4R human tau protein in vitro. <i>Iranian Journal of Basic Medical Sciences</i> , 2015 , 18, 485-92	1.8	21
85	Microtubule Dynamicity Is More Important than Stability in Memory Formation: an In Vivo Study. <i>Journal of Molecular Neuroscience</i> , 2015 , 56, 313-9	3.3	20
84	The effects of deferiprone and deferasirox on the structure and function of beta-thalassemia hemoglobin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2009 , 27, 319-39	3.6	20
83	βCyperone of <i>Cyperus rotundus</i> is an effective candidate for reduction of inflammation by destabilization of microtubule fibers in brain. <i>Journal of Ethnopharmacology</i> , 2016 , 194, 219-227	5	19
82	Appraisal of role of the polyanionic inducer length on amyloid formation by 412-residue 1N4R Tau protein: A comparative study. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 609, 1-19	4.1	18
81	Effects of supplemental dietary l-carnitine and ractopamine on the performance of juvenile rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquaculture Research</i> , 2010 , 41, 1582-1591	1.9	17
80	The effect of the crocus sativus L. Carotenoid, crocin, on the polymerization of microtubules, in vitro. <i>Iranian Journal of Basic Medical Sciences</i> , 2013 , 16, 101-7	1.8	17
79	Microtubule network as a potential candidate for targeting by gold nanoparticle-assisted photothermal therapy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 192, 131-140	6.7	16
78	Safranal as a novel anti-tubulin binding agent with potential use in cancer therapy: An in vitro study. <i>Chemico-Biological Interactions</i> , 2015 , 238, 151-60	5	16
77	Proteomic analysis and microtubule dynamicity of human sperm in electromagnetic cryopreservation. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 9483-9497	4.7	16
76	Novel Approach of Biophotovoltaic Solid State Solar Cells Based on a Multilayer of PS1 Complexes as an Active Layer. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9836-9840	8.3	16
75	Biological evaluation of synthetic analogues of curcumin: chloro-substituted-2'-hydroxychalcones as potential inhibitors of tubulin polymerization and cell proliferation. <i>Medicinal Chemistry Research</i> , 2011 , 20, 503-510	2.2	16
74	Influence of morphine and dopamine receptor sensitization on locomotor activity in mice. <i>Pharmacology</i> , 2006 , 78, 185-92	2.3	16
73	Mitochondrial D-loop variation in Persian multiple sclerosis patients: K and A haplogroups as a risk factor!! . <i>Cellular and Molecular Neurobiology</i> , 2006 , 26, 119-25	4.6	16
72	Altered tubulin assembly dynamics with N-homocysteinyllated human 4R/1N tau in vitro. <i>FEBS Letters</i> , 2012 , 586, 3914-9	3.8	15
71	Synthesis, cytotoxic evaluation, and molecular docking study of 4,5-diaryl-thiazole-2-thione analogs of combretastatin A-4 as microtubule-binding agents. <i>Medicinal Chemistry Research</i> , 2014 , 23, 1465-1473 ^{2.2}	2.2	14
70	Bioinspired synthesis, characterization and antifungal activity of enzyme-mediated gold nanoparticles using a fungal oxidoreductase. <i>Journal of the Iranian Chemical Society</i> , 2016 , 13, 2059-2068 ²	2	13

69	Organic solar cell based on photosystem I pigment-protein complex, fabrication and optimization. <i>Organic Electronics</i> , 2017 , 51, 341-348	3.5	13
68	HSA-interaction studies of uranyl complexes of alkyl substituted isothiosemicarbazone. <i>Journal of Molecular Structure</i> , 2019 , 1193, 53-61	3.4	12
67	The synergistic effect of beta-boswellic acid and Nurr1 overexpression on dopaminergic programming of antioxidant glutathione peroxidase-1-expressing murine embryonic stem cells. <i>Neuroscience</i> , 2012 , 222, 404-16	3.9	12
66	Imprinted microspheres and nanoparticles with diclofenac sodium: effect of solvent on the morphology and recognition properties. <i>Polymer International</i> , 2013 , 62, 1711-1716	3.3	12
65	Inhibition of Tau amyloid fibril formation by folic acid: In-vitro and theoretical studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 1505-1516	7.9	12
64	Saturated fatty acids may ameliorate environmental heat stress in broiler birds by affecting mitochondrial energetics and related genes. <i>Journal of Thermal Biology</i> , 2018 , 78, 1-9	2.9	11
63	An in vitro study of the role of Boswellic acid in the microtubule assembly dynamics. <i>FEBS Letters</i> , 2012 , 586, 4132-8	3.8	10
62	Extending the application of a magnetic PEG three-part drug release device on a graphene substrate for the removal of Gram-positive and Gram-negative bacteria and cancerous and pathologic cells. <i>Drug Design, Development and Therapy</i> , 2019 , 13, 1581-1591	4.4	9
61	The Effects of Alpha Boswellic Acid on Reelin Expression and Tau Phosphorylation in Human Astrocytes. <i>NeuroMolecular Medicine</i> , 2017 , 19, 136-146	4.6	9
60	Application of biomarkers in mudskipper (<i>Boleophthalmus dussumieri</i>) to assess polycyclic aromatic hydrocarbons (PAHs) pollution in coastal areas of the Persian Gulf. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 84, 311-8	7	9
59	Ac-SDKP ameliorates the progression of experimental autoimmune encephalomyelitis via inhibition of ER stress and oxidative stress in the hippocampus of C57BL/6 mice. <i>Brain Research Bulletin</i> , 2020 , 154, 21-31	3.9	9
58	Zinc and copper oxide nanoparticles decrease synaptosomal glutamate uptake: an in vitro study. <i>Journal of the Iranian Chemical Society</i> , 2015 , 12, 87-94	2	8
57	Effect of glycated insulin on the blood-brain barrier permeability: An in vitro study. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 647, 54-66	4.1	8
56	Variations of glutamate concentration within synaptic cleft in the presence of electromagnetic fields: an artificial neural networks study. <i>Neurochemical Research</i> , 2015 , 40, 629-42	4.6	8
55	PEGylation of graphene/iron oxide nanocomposite: assessment of release of doxorubicin, magnetically targeted drug delivery and photothermal therapy. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 1205-1217	3.3	7
54	Determination of the Best Concentration of Streptozotocin to Create a Diabetic Brain Using Histological Techniques. <i>Journal of Molecular Neuroscience</i> , 2016 , 59, 24-35	3.3	7
53	Three-level response surface full-factorial design: advanced chemometric approach for optimizing diclofenac sodium-imprinted polymer. <i>Polymer Bulletin</i> , 2014 , 71, 19-30	2.4	7
52	Synaptosomal acetylcholinesterase activity variation pattern in the presence of electromagnetic fields. <i>International Journal of Biological Macromolecules</i> , 2014 , 65, 8-15	7.9	7

51	Neuroprotective Effects of Herbal Extract (Rosa canina, Tanacetum vulgare and Urtica dioica) on Rat Model of Sporadic Alzheimer's Disease. <i>Avicenna Journal of Medical Biotechnology</i> , 2016 , 8, 120-5	1.4	7
50	Synthesis and HSA-interaction of a new mixed ligand Cu-isothiosemicarbazone complex with adenine nucleobase. <i>Polyhedron</i> , 2020 , 179, 114357	2.7	7
49	Chronic, long-term social stress can cause decreased microtubule protein network activity and dynamics in cerebral cortex of male Wistar rats. <i>Journal of Molecular Neuroscience</i> , 2015 , 55, 579-86	3.3	6
48	A possible mechanism for controlling processive transport by microtubule-associated proteins. <i>Neuroscience Research</i> , 2008 , 61, 347-50	2.9	6
47	Trichloroacetic acid treatment as a tricky way for rapid purification of 1N/4R tau protein. <i>Protein Expression and Purification</i> , 2016 , 118, 98-104	2	5
46	Anti-metastatic properties of a potent herbal combination in cell and mice models of triple negative breast cancer. <i>Life Sciences</i> , 2020 , 243, 117245	6.8	5
45	Evidence against tubulin oligomer dissociation to tubulin dimer at assembly temperatures. <i>BBA - Proteins and Proteomics</i> , 1982 , 705, 8-11		5
44	Toxicity and interaction of titanium dioxide nanoparticles with microtubule protein. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008 , 40, 777-782	2.8	5
43	The role of anionic peptide fragments in 1N4R human tau protein aggregation. <i>Protein and Peptide Letters</i> , 2014 , 21, 511-6	1.9	5
42	Short chain fatty acids may improve hepatic mitochondrial energy efficiency in heat stressed-broilers. <i>Journal of Thermal Biology</i> , 2020 , 89, 102520	2.9	5
41	Comparative evaluation of adolescent repeated psychological or physical stress effects on adult cognitive performance, oxidative stress, and heart rate in female rats. <i>Stress</i> , 2019 , 22, 123-132	3	5
40	A theoretical and experimental study of six novel new complexes of alkyl substituted isothiosemicarbazone. <i>Inorganica Chimica Acta</i> , 2019 , 484, 322-331	2.7	5
39	Nanocomposite of montmorillonite/nettle extract: A potential ingredient for functional foods development. <i>Journal of Functional Foods</i> , 2019 , 57, 166-172	5.1	4
38	Peptides NAP and SAL attenuate human tau granular-shaped oligomers in vitro and in SH-SY5Y cells. <i>Neuropeptides</i> , 2016 , 59, 21-31	3.3	4
37	Photosystem I application in biohybrid polymer solar cells. <i>AIP Advances</i> , 2018 , 8, 095319	1.5	4
36	Psychological stress effects on myelin degradation in the cuprizone-induced model of demyelination. <i>Neuropathology</i> , 2019 , 39, 14-21	2	4
35	Electromagnetic field in human sperm cryopreservation improves fertilizing potential of thawed sperm through physicochemical modification of water molecules in freezing medium. <i>PLoS ONE</i> , 2019 , 14, e0221976	3.7	3
34	Comparison of polymerization and structural behavior of microtubules in rat brain and sperm affected by the extremely low-frequency electromagnetic field. <i>BMC Molecular and Cell Biology</i> , 2019 , 20, 41	2.7	3

33	Structure, Function and Interactions of Tau: Particular Focus on Potential Drug Targets for the Treatment of Tauopathies. <i>CNS and Neurological Disorders - Drug Targets</i> , 2018 , 17, 325-337	2.6	3
32	Tryptophan Improves Memory Independent of Its Role as a Serotonin Precursor: Potential Involvement of Microtubule Proteins. <i>Journal of Molecular Neuroscience</i> , 2020 , 70, 559-567	3.3	3
31	Aggregate Forms of Recombinant Human Erythropoietin With Different Charge Profile Substantially Impact Biological Activities. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 277-283	3.9	3
30	The Changes in H-MRS Metabolites in Cuprizone-Induced Model of Multiple Sclerosis: Effects of Prior Psychological Stress. <i>Journal of Molecular Neuroscience</i> , 2021 , 71, 804-809	3.3	3
29	Aqueous extract of <i>Launaea acanthodes</i> induces glutamate uptake and GABA release in astrocyte cell culture via a ROS scavenging mediated process. <i>Journal of Chemical Neuroanatomy</i> , 2017 , 82, 1-4	3.2	2
28	Introduction of Two Halo-Alkali-thermo-stable Biocatalysts: Purification and Characterization. <i>Catalysis Letters</i> , 2018 , 148, 831-842	2.8	2
27	DNA-binding mode transition of tau in the presence of Zinc ions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 1925-1933	3.6	2
26	Electromagnetic fields with 217 Hz and 0.2 mT as hazardous factors for tubulin structure and assembly (in vitro study). <i>Journal of the Iranian Chemical Society</i> , 2014 , 11, 1295-1304	2	2
25	Interference of arsenic trioxide on magnesium dependent polymerization of microtubule proteins. <i>Journal of the Iranian Chemical Society</i> , 2009 , 6, 715-721	2	2
24	Correlation between adolescent chronic emotional stress and incidence of adult cardiovascular disease in female rats. <i>Iranian Journal of Basic Medical Sciences</i> , 2019 , 22, 1179-1185	1.8	2
23	Moderately Halophilic Bacteria and Their Industrially Important Enzymes from the Ancient Ecosystem Badab-e Surt. <i>Industrial Biotechnology</i> , 2019 , 15, 95-105	1.3	1
22	Sensitive detection of proteins in polyacrylamide gel via isatoic anhydride derivatization: Introduction of a low-cost fluorescent prelabeling procedure. <i>Electrophoresis</i> , 2016 , 37, 2610-2614	3.6	1
21	A bio-mimetic zinc/tau protein as an artificial catalase. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 1307-1312	7.9	1
20	Effects of static magnetic fields on the structure, polymerization, and bioelectric of tubulin assemblies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017 , 35, 3370-3383	3.6	1
19	An in vitro study of the role of docosahexaenoic acid in human tau protein aggregation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017 , 35, 3176-3181	3.6	1
18	Disruption of tubulin polymerization and cell proliferation by 1-naphthylarsonic acid. <i>Cell Biology International</i> , 2012 , 36, 403-8	4.5	1
17	Effects of Ectoine on Behavior and Candidate Genes Expression in ICV-STZ Rat Model of Sporadic Alzheimer's Disease. <i>Advanced Pharmaceutical Bulletin</i> , 2017 , 7, 629-636	4.5	1
16	The importance of HCT and Salt bridges in the Formation of Insulin and its Receptor Complex by Computational Simulation. <i>Iranian Journal of Pharmaceutical Research</i> , 2018 , 17, 63-74	1.1	1

15	Peptide LIQ Promotes Cell Protection against Zinc-Induced Cytotoxicity through Microtubule Stabilization. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 515-534	5.7	1
14	Protection of Beta Boswellic Acid against Streptozotocin-induced Alzheimer's Model by Reduction of Tau Phosphorylation Level and Enhancement of Reelin Expression. <i>Planta Medica</i> , 2021 ,	3.1	1
13	Healthier Lifestyle by Considering Psychoemotional Dimension of Wellness. <i>University of Tehran Science and Humanities Series</i> , 2021 , 155-166	0	1
12	The long-term effects of Δ-tetrahydrocannabinol on microtubule dynamicity in rats. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 693, 108574	4.1	0
11	The brain 3HSD up-regulation in response to deteriorating effects of background emotional stress: an animal model of multiple sclerosis. <i>Metabolic Brain Disease</i> , 2021 , 36, 1253-1258	3.9	0
10	Interplay of isoform 1N4R tau protein and amyloid-β peptide fragment 25-35 in reducing and non-reducing conditions. <i>Journal of Biochemistry</i> , 2021 , 169, 119-134	3.1	0
9	Improvement of Solar Cell Efficacy by Pulsed External Electric Fields on PSI Protein Arrangement. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7642-7653	6.1	0
8	Unravelling the Novel Effects of Three Volatile Compounds in Preventing Fibril Formation of Disease Related Tau and β-Synuclein Proteins- Towards Identifying Candidate Aromatic Substances for Treating Neurodegenerative Diseases.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 793727	5.6	0
7	Site Directed Disulfide PEGylation of Interferon-β with Fork Peptide Linker. <i>Bioconjugate Chemistry</i> , 2020 , 31, 708-720	6.3	
6	Detection of Proteins in Polyacrylamide Gels via Prelabeling by Isatoic Anhydride. <i>Methods in Molecular Biology</i> , 2018 , 1853, 173-177	1.4	
5	Synthesis of new phosphate derivative of benzothiazole and its inhibiting effect on two series of human neuroblastoma cell growth. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 675-679	2.8	
4	Influence of various intensities of 528Hz sound-wave in production of testosterone in rat's brain and analysis of behavioral changes. <i>Genes and Genomics</i> , 2019 , 41, 201-211	2.1	
3	Alteration of gene expression in reactive astrocytes induced by Aβ-42 using low dose of methamphetamine. <i>Molecular Biology Reports</i> , 2021 , 48, 6103-6112	2.8	
2	Astaxanthin Decreases Spatial Memory and Glutamate Transport Impairment Induced by Fluoride.. <i>Iranian Journal of Pharmaceutical Research</i> , 2021 , 20, 238-254	1.1	
1	Absorption Analysis of Photosystem I in Different Plants for Biohybrid Solar Cell Applications. <i>Energy Technology</i> , 2200107	3.5	