

# Gholamhossein Riazi

## List of Publications by Year in descending order

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108  
papers

1,755  
citations

279487

23  
h-index

344852

36  
g-index

110  
all docs

110  
docs citations

110  
times ranked

2825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxicity and interaction of titanium dioxide nanoparticles with microtubule protein. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008, 40, 777-782.	0.9	129
2	Enzymatic synthesis of gold nanoparticles using sulfite reductase purified from <i>Escherichia coli</i> : A green eco-friendly approach. <i>Process Biochemistry</i> , 2015, 50, 1076-1085.	1.8	102
3	Antimicrobial Activity and Physical Characterization of Silver Nanoparticles Green Synthesized Using Nitrate Reductase from <i>Fusarium oxysporum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 4084-4098.	1.4	89
4	TRPM2 dependence of ROS-induced NLRP3 activation in Alzheimer's disease. <i>International Immunopharmacology</i> , 2018, 54, 78-85.	1.7	62
5	Antiproliferative activity of chloroformic extract of Persian Shallot, <i>Allium hirtifolium</i> , on tumor cell lines. <i>Cytotechnology</i> , 2008, 56, 179-185.	0.7	49
6	New indole-based chalconoids as tubulin-targeting antiproliferative agents. <i>Bioorganic Chemistry</i> , 2017, 75, 86-98.	2.0	48
7	Effects of mobile phone radiofrequency on the structure and function of the normal human hemoglobin. <i>International Journal of Biological Macromolecules</i> , 2009, 44, 278-285.	3.6	45
8	The enhancement effect of beta-boswellic acid on hippocampal neurites outgrowth and branching (an) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	40
9	Complex I deficiency in Persian multiple sclerosis patients. <i>Journal of the Neurological Sciences</i> , 2006, 243, 65-69.	0.3	39
10	Vitamin B12 Inhibits Tau Fibrillization via Binding to Cysteine Residues of Tau. <i>ACS Chemical Neuroscience</i> , 2017, 8, 2676-2682.	1.7	38
11	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, 357-369.	1.1	37
12	Inhibitory Effect of Crocin on Metastasis of Triple-Negative Breast Cancer by Interfering with Wnt/ $\beta$ -Catenin Pathway in Murine Model. <i>DNA and Cell Biology</i> , 2018, 37, 1068-1075.	0.9	37
13	FGF10: Type III Epithelial Mesenchymal Transition and Invasion in Breast Cancer Cell Lines. <i>Journal of Cancer</i> , 2014, 5, 537-547.	1.2	35
14	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, 2703-2709.	1.4	33
15	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/ $\beta$ -Catenin Pathway Genes. <i>DNA and Cell Biology</i> , 2018, 37, 697-707.	0.9	32
16	$\beta$ -Cyperone 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.	2.0	30
17	Effect of N <sup>6</sup> -homocysteinylation on physicochemical and cytotoxic properties of amyloid $\beta$ peptide. <i>FEBS Letters</i> , 2012, 586, 127-131.	1.3	29
18	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, 7648-7654.	1.4	28

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19	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.	1.7	28
20	Induction of apoptosis through tubulin inhibition in human cancer cells by new chromene-based chalcones. <i>Pharmaceutical Biology</i> , 2012, 50, 1551-1560.	1.3	26
21	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.	1.0	26
22	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.	0.9	25
23	Microtubule Dynamicity Is More Important than Stability in Memory Formation: an In Vivo Study. <i>Journal of Molecular Neuroscience</i> , 2015, 56, 313-319.	1.1	25
24	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.	1.4	24
25	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.	3.6	24
26	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, 151-160.	1.7	23
27	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.	3.2	23
28	The Effects of Deferiprone and Deferasirox on the Structure and Function of $\beta^2$ -Thalassemia Hemoglobin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2009, 27, 319-329.	2.0	22
29	Proteomic analysis and microtubule dynamicity of human sperm in electromagnetic cryopreservation. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 9483-9497.	1.2	22
30	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.	1.6	22
31	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, 119-125.	1.7	19
32	Altered tubulin assembly dynamics with <i>N</i> -homocysteinylnated human 4R/1N tau in vitro. <i>FEBS Letters</i> , 2012, 586, 3914-3919.	1.3	19
33	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.	1.0	19
34	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, 404-416.	1.1	18
35	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.	1.2	18
36	Organic solar cell based on photosystem I pigment-protein complex, fabrication and optimization. <i>Organic Electronics</i> , 2017, 51, 341-348.	1.4	18

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37	Influence of Morphine and Dopamine Receptor Sensitization on Locomotor Activity in Mice. <i>Pharmacology</i> , 2006, 78, 185-192.	0.9	17
38	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.	1.1	17
39	The Effects of Alpha Boswellic Acid on Reelin Expression and Tau Phosphorylation in Human Astrocytes. <i>NeuroMolecular Medicine</i> , 2017, 19, 136-146.	1.8	17
40	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.	1.1	16
41	HSA-interaction studies of uranyl complexes of alkyl substituted isothiosemicarbazone. <i>Journal of Molecular Structure</i> , 2019, 1193, 53-61.	1.8	16
42	An in vitro study of the role of boswellic acid in the microtubule assembly dynamics. <i>FEBS Letters</i> , 2012, 586, 4132-4138.	1.3	15
43	Nanocomposite of montmorillonite/nettle extract: A potential ingredient for functional foods development. <i>Journal of Functional Foods</i> , 2019, 57, 166-172.	1.6	15
44	Imprinted microspheres and nanoparticles with diclofenac sodium: effect of solvent on the morphology and recognition properties. <i>Polymer International</i> , 2013, 62, 1711-1716.	1.6	13
45	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.	1.1	13
46	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.	1.4	13
47	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.	2.0	13
48	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, 311-318.	2.9	12
49	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.	1.4	12
50	Photosystem I application in biohybrid polymer solar cells. <i>AIP Advances</i> , 2018, 8, .	0.6	12
51	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.	0.8	12
52	Cannabidiol Inhibits Tau Aggregation In Vitro. <i>Cells</i> , 2021, 10, 3521.	1.8	12
53	Synaptosomal acetylcholinesterase activity variation pattern in the presence of electromagnetic fields. <i>International Journal of Biological Macromolecules</i> , 2014, 65, 8-15.	3.6	11
54	Neuroprotective Effects of Herbal Extract ( <i>Rosa canina</i> , <i>Tanacetum vulgare</i> and <i>Urtica dioica</i> ) on Rat Model of Sporadic Alzheimer's Disease. <i>Avicenna Journal of Medical Biotechnology</i> , 2016, 8, 120-5.	0.2	11

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55	&lt;p&gt;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&lt;/p&gt;. <i>Drug Design, Development and Therapy</i> , 2019, Volume 13, 1581-1591.	2.0	10
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, 629-642.	1.6	9
57	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.	1.1	9
58	Psychological stress effects on myelin degradation in the cuprizoneâ€induced model of demyelination. <i>Neuropathology</i> , 2018, 39, 14-21.	0.7	9
59	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.	1.2	8
60	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.	1.0	8
61	Synthesis and HSA-interaction of a new mixed ligand Cu-isothiosemicarbazonato complex with adenine nucleobase. <i>Polyhedron</i> , 2020, 179, 114357.	1.0	8
62	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> , 2022, 88, 367-379.	0.7	8
63	Three-level response surface full-factorial design: advanced chemometric approach for optimizing diclofenac sodium-imprinted polymer. <i>Polymer Bulletin</i> , 2014, 71, 19-30.	1.7	7
64	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, 579-586.	1.1	7
65	The Role of Anionic Peptide Fragments in 1N4R Human Tau Protein Aggregation. <i>Protein and Peptide Letters</i> , 2014, 21, 511-516.	0.4	7
66	A possible mechanism for controlling processive transport by microtubule-associated proteins. <i>Neuroscience Research</i> , 2008, 61, 347-350.	1.0	6
67	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.	1.1	6
68	A theoretical and experimental study of six novel new complexes of alkyl substituted isothiosemicarbazono. <i>Inorganica Chimica Acta</i> , 2019, 484, 322-331.	1.2	6
69	Short chain fatty acids may improve hepatic mitochondrial energy efficiency in heat stressed-broilers. <i>Journal of Thermal Biology</i> , 2020, 89, 102520.	1.1	6
70	Evidence against tubulin oligomer dissociation to tubulin dimer at assembly temperatures. <i>BBA - Proteins and Proteomics</i> , 1982, 705, 8-11.	2.1	5
71	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.	0.6	5
72	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.	1.1	5

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73	The Changes in 1H-MRS Metabolites in Cuprizone-Induced Model of Multiple Sclerosis: Effects of Prior Psychological Stress. <i>Journal of Molecular Neuroscience</i> , 2021, 71, 804-809.	1.1	5
74	Toxicity and interaction of titanium dioxide nanoparticles with microtubule protein. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008, 40, 777-782.	0.9	5
75	Effects of Ectoïne 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.	0.6	5
76	Electromagnetic fields with 217ÂHz 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.	1.2	4
77	Peptides NAP and SAL attenuate human tau granular-shaped oligomers in vitro and in SH-SY5Y cells. <i>Neuropeptides</i> , 2016, 59, 21-31.	0.9	4
78	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.	2.0	4
79	Aggregate Forms of Recombinant Human Erythropoietin With Different Charge Profile Substantially Impact Biological Activities. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 277-283.	1.6	4
80	Disruption of tubulin polymerization and cell proliferation by 1-naphthylarsonic acid. <i>Cell Biology International</i> , 2012, 36, 403-408.	1.4	3
81	Peptide LIQ Promotes Cell Protection against Zinc-Induced Cytotoxicity through Microtubule Stabilization. <i>ACS Chemical Neuroscience</i> , 2020, 11, 515-534.	1.7	3
82	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.	0.8	3
83	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.	1.0	3
84	Interference of arsenic trioxide on magnesium dependent polymerization of microtubule proteins. <i>Journal of the Iranian Chemical Society</i> , 2009, 6, 715-721.	1.2	2
85	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.	1.0	2
86	Introduction of Two Halo-Alkali-thermo-stable Biocatalysts: Purification and Characterization. <i>Catalysis Letters</i> , 2018, 148, 831-842.	1.4	2
87	DNA-binding mode transition of tau in the presence of Zinc ions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1925-1933.	2.0	2
88	Influence of various intensities of 528ÂHz sound-wave in production of testosterone in rat's brain and analysis of behavioral changes. <i>Genes and Genomics</i> , 2019, 41, 201-211.	0.5	2
89	The long-term effects of $\delta^9$ -tetrahydrocannabinol on microtubule dynamicity in rats. <i>Archives of Biochemistry and Biophysics</i> , 2020, 693, 108574.	1.4	2
90	Interplay of isoform 1N4R tau protein and amyloid- $\beta^2$ peptide fragment 25-35 in reducing and non-reducing conditions. <i>Journal of Biochemistry</i> , 2021, 169, 119-134.	0.9	2

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91	Healthier Lifestyle by Considering Psychoemotional Dimension of Wellness. University of Tehran Science and Humanities Series, 2021, , 155-166.	0.1	2
92	The brain 3 $\beta$ -HSD up-regulation in response to deteriorating effects of background emotional stress: an animal model of multiple sclerosis. Metabolic Brain Disease, 2021, 36, 1253-1258.	1.4	2
93	Improvement of Solar Cell Efficacy by Pulsed External Electric Fields on PSI Protein Arrangement. ACS Applied Energy Materials, 2021, 4, 7642-7653.	2.5	2
94	Supplementation of freezing medium with encapsulated or free glutathione during cryopreservation of bull sperm. Reproduction in Domestic Animals, 2022, , .	0.6	2
95	Unravelling the Novel Effects of Three Volatile Compounds in Preventing Fibril Formation of Disease Related Tau and $\alpha$ -Synuclein Proteins- Towards Identifying Candidate Aromatic Substances for Treating Neurodegenerative Diseases. Frontiers in Pharmacology, 2022, 13, 793727.	1.6	2
96	Absorption Analysis of Photosystem I in Different Plants for Biohybrid Solar Cell Applications. Energy Technology, 2022, 10, .	1.8	2
97	Sensitive detection of proteins in polyacrylamide gel via isatoic anhydride derivatization: Introduction of a low-cost fluorescent prelabeling procedure. Electrophoresis, 2016, 37, 2610-2614.	1.3	1
98	A bio-mimetic zinc/tau protein as an artificial catalase. International Journal of Biological Macromolecules, 2016, 92, 1307-1312.	3.6	1
99	An in vitro study of the role of docosahexaenoic acid in human tau protein aggregation. Journal of Biomolecular Structure and Dynamics, 2017, 35, 3176-3181.	2.0	1
100	Moderately Halophilic Bacteria and Their Industrially Important Enzymes from the Ancient Ecosystem Badab-e Surt. Industrial Biotechnology, 2019, 15, 95-105.	0.5	1
101	The importance of $\alpha$ -CT and Salt bridges in the Formation of Insulin and its Receptor Complex by Computational Simulation. Iranian Journal of Pharmaceutical Research, 2018, 17, 63-74.	0.3	1
102	Numerical Evaluation of Novel Bio-Photovoltaic Devices Inspired by Photosynthetic Process and High Poly (3,4-ethylenedioxythiophene): Poly (styrenesulfonate) Efficacy as Hole Transport Layer. Energy Technology, 2022, 10, .	1.8	1
103	Synthesis of new phosphate derivative of benzothiazole and its inhibiting effect on two series of human neuroblastoma cell growth. Korean Journal of Chemical Engineering, 2013, 30, 675-679.	1.2	0
104	Static magnetic fields can diminish neuron spines through microtubule dynamicity disruption. , 2015, , .		0
105	Detection of Proteins in Polyacrylamide Gels via Prelabeling by Isatoic Anhydride. Methods in Molecular Biology, 2018, 1853, 173-177.	0.4	0
106	Site Directed Disulfide PEGylation of Interferon- $\beta$ 1b with Fork Peptide Linker. Bioconjugate Chemistry, 2020, 31, 708-720.	1.8	0
107	Alteration of gene expression in reactive astrocytes induced by $\Delta^1$ -9-THC using low dose of methamphetamine. Molecular Biology Reports, 2021, 48, 6103-6112.	1.0	0
108	Astaxanthin Decreases Spatial Memory and Glutamate Transport Impairment Induced by Fluoride.. Iranian Journal of Pharmaceutical Research, 2021, 20, 238-254.	0.3	0