

Gholamhossein Riazi

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.

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 | 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 |
| 103 | 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 |
| 102 | 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 |
| 101 | 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 |
| 100 | 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 |
| 99 | Healthier Lifestyle by Considering Psychoemotional Dimension of Wellness. <i>University of Tehran Science and Humanities Series</i> , 2021 , 155-166 | 0 | 1 |
| 98 | Alteration of gene expression in reactive astrocytes induced by A β -42 using low dose of methamphetamine. <i>Molecular Biology Reports</i> , 2021 , 48, 6103-6112 | 2.8 | |
| 97 | 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 |
| 96 | Astaxanthin Decreases Spatial Memory and Glutamate Transport Impairment Induced by Fluoride.. <i>Iranian Journal of Pharmaceutical Research</i> , 2021 , 20, 238-254 | 1.1 | |
| 95 | 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 |
| 94 | Site Directed Disulfide PEGylation of Interferon- β 1b with Fork Peptide Linker. <i>Bioconjugate Chemistry</i> , 2020 , 31, 708-720 | 6.3 | |
| 93 | 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 |
| 92 | Synthesis and HSA-interaction of a new mixed ligand Cu-isothiosemicarbazonato complex with adenine nucleobase. <i>Polyhedron</i> , 2020 , 179, 114357 | 2.7 | 7 |
| 91 | 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 |
| 90 | 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 |
| 89 | 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 |
| 88 | Peptide LIQ Promotes Cell Protection against Zinc-Induced Cytotoxicity through Microtubule Stabilization. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 515-534 | 5.7 | 1 |

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| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | 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 |
| 80 | HSA-interaction studies of uranyl complexes of alkyl substituted isothiosemicarbazone. <i>Journal of Molecular Structure</i> , 2019 , 1193, 53-61 | 3.4 | 12 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | Influence of various intensities of 528Hz sound-wave in production of testosterone in rats' brain and analysis of behavioral changes. <i>Genes and Genomics</i> , 2019 , 41, 201-211 | 2.1 | |
| 75 | 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 |
| 74 | 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 |
| 73 | Psychological stress effects on myelin degradation in the cuprizone-induced model of demyelination. <i>Neuropathology</i> , 2019 , 39, 14-21 | 2 | 4 |
| 72 | 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 |
| 71 | Introduction of Two Halo-Alkali-thermo-stable Biocatalysts: Purification and Characterization. <i>Catalysis Letters</i> , 2018 , 148, 831-842 | 2.8 | 2 |
| 70 | 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 |

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| 69 | 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 |
| 68 | Detection of Proteins in Polyacrylamide Gels via Prelabeling by Isatoic Anhydride. <i>Methods in Molecular Biology</i> , 2018 , 1853, 173-177 | 1.4 | |
| 67 | Proteomic analysis and microtubule dynamicity of human sperm in electromagnetic cryopreservation. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 9483-9497 | 4.7 | 16 |
| 66 | The importance of ECT 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 |
| 65 | 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 |
| 64 | TRPM2 dependence of ROS-induced NLRP3 activation in Alzheimer's disease. <i>International Immunopharmacology</i> , 2018 , 54, 78-85 | 5.8 | 37 |
| 63 | Photosystem I application in biohybrid polymer solar cells. <i>AIP Advances</i> , 2018 , 8, 095319 | 1.5 | 4 |
| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | Vitamin B12 Inhibits Tau Fibrillization via Binding to Cysteine Residues of Tau. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 2676-2682 | 5.7 | 27 |
| 58 | Organic solar cell based on photosystem I pigment-protein complex, fabrication and optimization. <i>Organic Electronics</i> , 2017 , 51, 341-348 | 3.5 | 13 |
| 57 | New indole-based chalconoids as tubulin-targeting antiproliferative agents. <i>Bioorganic Chemistry</i> , 2017 , 75, 86-98 | 5.1 | 34 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |

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| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 | | 13 |
| 47 | 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 |
| 46 | 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 |
| 45 | A bio-mimetic zinc/tau protein as an artificial catalase. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 1307-1312 | 7.9 | 1 |
| 44 | 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 | 1.4 | 7 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 | 4.8 | 82 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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, 4084-98 ² | 3.2 | 68 |
| 34 | 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 |

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| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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} | 3.2 | 14 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 | |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Altered tubulin assembly dynamics with N-homocysteinylation human 4R/1N tau in vitro. <i>FEBS Letters</i> , 2012 , 586, 3914-9 | 3.8 | 15 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 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 | Effect of N-homocysteinylation on physicochemical and cytotoxic properties of amyloid β peptide. <i>FEBS Letters</i> , 2012 , 586, 127-31 | 3.8 | 26 |
| 16 | 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 |

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|----|--|-----|-----|
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | A possible mechanism for controlling processive transport by microtubule-associated proteins. <i>Neuroscience Research</i> , 2008 , 61, 347-50 | 2.9 | 6 |
| 8 | Toxicity and interaction of titanium dioxide nanoparticles with microtubule protein. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008 , 40, 777-782 | 2.8 | 107 |
| 7 | 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 |
| 6 | Toxicity and interaction of titanium dioxide nanoparticles with microtubule protein. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008 , 40, 777-782 | 2.8 | 5 |
| 5 | Influence of morphine and dopamine receptor sensitization on locomotor activity in mice. <i>Pharmacology</i> , 2006 , 78, 185-92 | 2.3 | 16 |
| 4 | Complex I deficiency in Persian multiple sclerosis patients. <i>Journal of the Neurological Sciences</i> , 2006 , 243, 65-9 | 3.2 | 36 |
| 3 | 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 |
| 2 | Evidence against tubulin oligomer dissociation to tubulin dimer at assembly temperatures. <i>BBA - Proteins and Proteomics</i> , 1982 , 705, 8-11 | | 5 |
| 1 | Absorption Analysis of Photosystem I in Different Plants for Biohybrid Solar Cell Applications. <i>Energy Technology</i> , 2200107 | 3.5 | |