

Reza H Sajedi

List of Publications by Year in descending order

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100
papers

1,189
citations

516710

16
h-index

526287

27
g-index

103
all docs

103
docs citations

103
times ranked

1417
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Cysteine enhances activity and stability of immobilized papain. <i>Amino Acids</i> , 2010, 38, 937-942. | 2.7 | 99 |
| 2 | Effect of chitosan coating on maintenance of aril quality, microbial population and PPO activity of pomegranate (<i>Punica granatum</i> L. cv. Tarom) at cold storage temperature. <i>Journal of the Science of Food and Agriculture</i> , 2013, 93, 368-374. | 3.5 | 80 |
| 3 | Autolysis, plasmolysis and enzymatic hydrolysis of baker's yeast (<i>Saccharomyces cerevisiae</i>): a comparative study. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 68. | 3.6 | 55 |
| 4 | Purification and characterization of a milk-clotting aspartic protease from <i>Withania coagulans</i> fruit. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 847-854. | 7.5 | 51 |
| 5 | Crosstalk between melatonin and Ca ²⁺ /CaM evokes systemic salt tolerance in <i>Dracocephalum kotschyi</i> . <i>Journal of Plant Physiology</i> , 2020, 252, 153237. | 3.5 | 44 |
| 6 | Extraction and purification of a highly thermostable alkaline caseinolytic protease from wastes <i>Penaeus vannamei</i> suitable for food and detergent industries. <i>Food Chemistry</i> , 2016, 202, 110-115. | 8.2 | 42 |
| 7 | Enzymatic desizing of cotton fabric using a Ca ²⁺ -independent α -amylase with acidic pH profile. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 83, 46-50. | 1.8 | 36 |
| 8 | Fermentative desizing of cotton fabric using an α -amylase-producing <i>Bacillus</i> strain: Optimization of simultaneous enzyme production and desizing. <i>Process Biochemistry</i> , 2014, 49, 1884-1888. | 3.7 | 26 |
| 9 | Possible role of iron containing proteins in physiological responses of soybean to static magnetic field. <i>Journal of Plant Physiology</i> , 2018, 226, 163-171. | 3.5 | 23 |
| 10 | Chitosan nanoparticles-trypsin interactions: Bio-physicochemical and molecular dynamics simulation studies. <i>International Journal of Biological Macromolecules</i> , 2017, 103, 902-909. | 7.5 | 22 |
| 11 | An enzyme-mediated controlled release system for curcumin based on cyclodextrin/cyclodextrin degrading enzyme. <i>Enzyme and Microbial Technology</i> , 2021, 144, 109727. | 3.2 | 22 |
| 12 | A dextran mediated multicolor immunochromatographic rapid test strip for visual and instrumental simultaneous detection of <i>Vibrio cholera</i> O1 (Ogawa) and <i>Clostridium botulinum</i> toxin A. <i>Mikrochimica Acta</i> , 2017, 184, 4817-4825. | 5.0 | 21 |
| 13 | Artemin as an Efficient Molecular Chaperone. <i>Protein Journal</i> , 2011, 30, 549-557. | 1.6 | 20 |
| 14 | Molecular cloning, prokaryotic expression, purification, structural studies and functional implications of Heat Shock Protein 70 (Hsp70) from <i>Rutilus frisii kutum</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 108, 798-807. | 7.5 | 20 |
| 15 | The potential impact of carboxylic-functionalized multi-walled carbon nanotubes on trypsin: A Comprehensive spectroscopic and molecular dynamics simulation study. <i>PLoS ONE</i> , 2018, 13, e0198519. | 2.5 | 19 |
| 16 | Development of a highly potent anti-angiogenic VEGF heterodimer by directed blocking of its VEGFR ₂ binding site. <i>FEBS Journal</i> , 2014, 281, 4479-4494. | 4.7 | 18 |
| 17 | Sequence and structural analysis of artemin based on ferritin: A comparative study. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1407-1413. | 2.3 | 17 |
| 18 | A conformation-based phage-display panning to screen neutralizing anti-VEGF VHHs with VEGFR ₂ mimicry behavior. <i>International Journal of Biological Macromolecules</i> , 2015, 77, 222-234. | 7.5 | 17 |

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|----|---|------|-----------|
| 19 | Effects of 4-hexylresorcinol on the phenoloxidase from <i>Hyphantria cunea</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock | 3.0 | 16 |
| 20 | Very rapid amyloid fibril formation by a bacterial lipase in the absence of a detectable lag phase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 652-663. | 2.3 | 16 |
| 21 | Synthesis and catalytic evaluation of Fe ₃ O ₄ /MWCNTs nanozyme as recyclable peroxidase mimetics: Biochemical and physicochemical characterization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4018. | 3.5 | 16 |
| 22 | afpCOOL: A tool for antifreeze protein prediction. <i>Heliyon</i> , 2018, 4, e00705. | 3.2 | 16 |
| 23 | Deletion of extra C-terminal segment and its effect on the function and structure of artemin. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 311-316. | 7.5 | 15 |
| 24 | Luciferin-Regenerating Enzyme Mediates Firefly Luciferase Activation Through Direct Effects of Cysteine on Luciferase Structure and Activity. <i>Photochemistry and Photobiology</i> , 2015, 91, 828-836. | 2.5 | 15 |
| 25 | The comparison of protease activity and total protein in three cultivars of kiwifruit of Northern Iran during fruit development. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 343-348. | 2.1 | 14 |
| 26 | A luminescent hybridoma-based biosensor for rapid detection of <i>V. cholerae</i> upon induction of calcium signaling pathway. <i>Biosensors and Bioelectronics</i> , 2016, 79, 213-219. | 10.1 | 14 |
| 27 | Site-directed mutagenesis of photoprotein mnemiopsin: implication of some conserved residues in bioluminescence properties. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 467-478. | 2.9 | 13 |
| 28 | Substrate preference of a <i>Geobacillus maltogenic</i> amylase: A kinetic and thermodynamic analysis. <i>International Journal of Biological Macromolecules</i> , 2013, 60, 1-9. | 7.5 | 13 |
| 29 | A chemiluminescence-based catalase assay using H ₂ O ₂ -sensitive CdTe quantum dots. <i>Mikrochimica Acta</i> , 2018, 185, 376. | 5.0 | 13 |
| 30 | Exploring single-domain antibody thermostability by molecular dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 3686-3696. | 3.5 | 13 |
| 31 | RepCOOL: computational drug repositioning via integrating heterogeneous biological networks. <i>Journal of Translational Medicine</i> , 2020, 18, 375. | 4.4 | 13 |
| 32 | Artemin protects cells and proteins against oxidative and salt stress. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 618-624. | 7.5 | 12 |
| 33 | An inter-subunit disulfide bond of artemin acts as a redox switch for its chaperone-like activity. <i>Cell Stress and Chaperones</i> , 2018, 23, 685-693. | 2.9 | 12 |
| 34 | Bioluminescence Detection of Superoxide Anion Using Aequorin. <i>Analytical Chemistry</i> , 2019, 91, 12768-12774. | 6.5 | 12 |
| 35 | Comparative studies on trifluoroethanol (TFE) state of a thermophilic α -amylase and its mesophilic counterpart: limited proteolysis, conformational analysis, aggregation and reactivation of the enzymes. <i>International Journal of Biological Macromolecules</i> , 2004, 34, 173-179. | 7.5 | 11 |
| 36 | Rapid screening of drug candidates against EGFR/HER2 signaling pathway using fluorescence assay. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7827-7835. | 3.7 | 11 |

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|----|---|-----|-----------|
| 37 | Mutual effects of protein corona formation on CdTe quantum dots. <i>Analytical Biochemistry</i> , 2020, 610, 113983. | 2.4 | 11 |
| 38 | Targeted anticancer prodrug therapy using dextran mediated enzyme-antibody conjugate and β -cyclodextrin-curcumin inclusion complex. <i>International Journal of Biological Macromolecules</i> , 2020, 160, 1029-1041. | 7.5 | 11 |
| 39 | Enhanced sensitivity of VEGF detection using catalase-mediated chemiluminescence immunoassay based on CdTe QD/H ₂ O ₂ system. <i>Journal of Nanobiotechnology</i> , 2020, 18, 93. | 9.1 | 11 |
| 40 | The trypsin inhibitor pro-peptide induces toxic effects in Indianmeal moth, <i>Plodia interpunctella</i> . <i>Pesticide Biochemistry and Physiology</i> , 2021, 171, 104730. | 3.6 | 11 |
| 41 | Characterization of esterases from abamectin-resistant and susceptible strains of <i>Tetranychus urticae</i> Koch (Acari: Tetranychidae). <i>International Journal of Acarology</i> , 2011, 37, 271-281. | 0.7 | 10 |
| 42 | Directed Improvement of Luciferin Regenerating Enzyme Binding Properties: Implication of Some Conserved Residues in Luciferin Binding Domain. <i>Photochemistry and Photobiology</i> , 2014, 90, 1293-1298. | 2.5 | 10 |
| 43 | Improving the soluble expression of aequorin in <i>Escherichia coli</i> using the chaperone-based approach by co-expression with artemin. <i>Preparative Biochemistry and Biotechnology</i> , 2018, 48, 483-489. | 1.9 | 10 |
| 44 | Thiol-Dependent Serine Alkaline Proteases From <i>Bacillus</i> sp. HR-08 and KR-8102: Isolation, Production, and Characterization. <i>Applied Biochemistry and Biotechnology</i> , 2006, 134, 77-88. | 2.9 | 9 |
| 45 | Real-time monitoring of artemin <i>in vivo</i> chaperone activity using luciferase as an intracellular reporter. <i>Archives of Biochemistry and Biophysics</i> , 2016, 610, 33-40. | 3.0 | 9 |
| 46 | Deep Eutectic Solvents as a New Generation of Chemical Chaperones. <i>ChemistrySelect</i> , 2018, 3, 10603-10607. | 1.5 | 9 |
| 47 | Reaction mechanism of the bioluminescent protein mnemiopsin1 revealed by X-ray crystallography and QM/MM simulations. <i>Journal of Biological Chemistry</i> , 2019, 294, 20-27. | 3.4 | 9 |
| 48 | Interactions between second messengers, SA and MAPK6 signaling pathways lead to chitosan-induced lignan production in <i>Linum album</i> cell culture. <i>Industrial Crops and Products</i> , 2022, 177, 114525. | 5.2 | 9 |
| 49 | Characterization of acetylcholinesterase from elm leaf beetle, <i>Xanthogaleruca luteola</i> and QSAR of temphos derivatives against its activity. <i>Pesticide Biochemistry and Physiology</i> , 2017, 136, 12-22. | 3.6 | 8 |
| 50 | Development of a phage display-mediated immunoassay for the detection of vascular endothelial growth factor. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7639-7648. | 3.7 | 8 |
| 51 | Rapid and simple screening of the apoptotic compounds based on Hsp70 inhibition using luciferase as an intracellular reporter. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 149-158. | 3.7 | 8 |
| 52 | An analysis of temperature adaptation in cold active, mesophilic and thermophilic <i>Bacillus</i> α -amylases. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 1038-1045. | 7.5 | 7 |
| 53 | Effect of artemin on structural transition of β -lactoglobulin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 105, 24-28. | 3.9 | 7 |
| 54 | Biochemical characterization and structural analysis of trypsin from <i>Plodia interpunctella</i> midgut: implication of determinants in extremely alkaline pH activity profile. <i>Physiological Entomology</i> , 2017, 42, 307-318. | 1.5 | 7 |

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| 55 | Insight into the aggregation of lipase from <i>Pseudomonas</i> sp. using mutagenesis: protection of aggregation prone region by adoption of α -helix structure. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 419-426. | 2.1 | 7 |
| 56 | QM/MM simulations provide insight into the mechanism of bioluminescence triggering in ctenophore photoproteins. <i>PLoS ONE</i> , 2017, 12, e0182317. | 2.5 | 7 |
| 57 | Insecticidal effects of 4-hexylresorcinol on the lesser mulberry snout moth, <i>Glyphodes pyloalis</i> Walker. <i>Archives of Phytopathology and Plant Protection</i> , 2013, 46, 423-435. | 1.3 | 6 |
| 58 | Hyperactive Arg39Lys mutated mnemiopsin: implication of positively charged residue in chromophore binding cavity. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 792-800. | 2.9 | 6 |
| 59 | Hybridoma as a specific, sensitive, and ready to use sensing element: a rapid fluorescence assay for detection of <i>Vibrio cholerae</i> O1. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6443-6451. | 3.7 | 6 |
| 60 | Improving the luminescence properties of aequorin by conjugating to CdSe/ZnS quantum dot nanoparticles: Red shift and slowing decay rate. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 153-161. | 3.8 | 6 |
| 61 | CdTe quantum dots with green fluorescence generated by bioluminescence resonance energy transfer from aequorin. <i>Mikrochimica Acta</i> , 2017, 184, 753-762. | 5.0 | 6 |
| 62 | Synthesis of nonlinear polymer brushes on magnetic nanoparticles as an affinity adsorbent for His-tagged xylanase purification. <i>Colloid and Polymer Science</i> , 2020, 298, 1597-1607. | 2.1 | 6 |
| 63 | The application of the QDs/H ₂ O ₂ chemiluminescence system in HRP assay and HRP-based immunoassay. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 206, 111942. | 5.0 | 6 |
| 64 | Light induced structural changes of the photoprotein mnemiopsin: Characterization and contribution in photoinactivation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 133-140. | 3.8 | 5 |
| 65 | Determination of structural elements on the folding reaction of mnemiopsin by spectroscopic techniques. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 158, 49-55. | 3.9 | 5 |
| 66 | Photoinactivation related dynamics of ctenophore photoproteins: Insights from molecular dynamics simulation under electric-field. <i>Biochemical and Biophysical Research Communications</i> , 2017, 490, 265-270. | 2.1 | 5 |
| 67 | Allosteric properties of <i>Geobacillus maltogenic</i> amylase. <i>Enzyme and Microbial Technology</i> , 2017, 96, 36-41. | 3.2 | 5 |
| 68 | Structural and functional consequences of EF-hand I recovery in mnemiopsin 2. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 2006-2013. | 7.5 | 5 |
| 69 | Thermophilic iron containing type superoxide dismutase from <i>Cohnella</i> sp. A01. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 373-385. | 7.5 | 5 |
| 70 | A mutation in <i>Arabidopsis</i> SAL1 alters its in vitro activity against IP3 and delays developmental leaf senescence in association with lower ROS levels. <i>Plant Molecular Biology</i> , 2022, 108, 549-563. | 3.9 | 5 |
| 71 | Aequorin as a sensitive and selective reporter for detection of dopamine: A photoprotein inhibition assay approach. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 677-683. | 7.5 | 4 |
| 72 | Probing heat and oxidation induced conformational changes of molecular chaperone artemin by excitation-emission fluorescence spectroscopy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 211, 112013. | 3.8 | 4 |

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|----|---|-----|-----------|
| 73 | Novel Mutant Phospholipase D from <i>Hemiscorpius lepturus</i> Acts as A Highly Immunogen in BALB/c Mice Against the Lethality of Scorpion Venom. <i>Molecules</i> , 2020, 25, 1673. | 3.8 | 4 |
| 74 | Drug repositioning based on gene expression data for human HER2-positive breast cancer. <i>Archives of Biochemistry and Biophysics</i> , 2021, 712, 109043. | 3.0 | 4 |
| 75 | Anti-amyloidogenic effect of artemin on α -synuclein. <i>Biological Chemistry</i> , 2020, 401, 1143-1151. | 2.5 | 4 |
| 76 | Facile and Rapid Detection of Microalbuminuria by Antibody-Functionalized Gold Nanorods. <i>Plasmonics</i> , 2022, 17, 1269-1277. | 3.4 | 4 |
| 77 | Biochemical characterization of α - and β -glucosidases in alimentary canal, salivary glands and haemolymph of the rice green caterpillar, <i>Naranga aenescens</i> M. (Lepidoptera: Noctuidae). <i>Biologia (Poland)</i> , 2012, 67, 1186-1194. | 1.5 | 3 |
| 78 | Adjustment of local conformational flexibility and accessible surface area alterations of Serine128 and Valine183 in mnemiopsin. <i>Journal of Molecular Structure</i> , 2016, 1117, 287-292. | 3.6 | 3 |
| 79 | Proposed ionic bond between Arg300 and Glu270 and Glu271 are not involved in inactivation of a mutant firefly luciferase (LRR). <i>Enzyme and Microbial Technology</i> , 2016, 86, 17-24. | 3.2 | 3 |
| 80 | Evolutionary conservation of EF-hand α -loop in aequorin: Priority of intensity to decay rate in bioluminescence emission. <i>Archives of Biochemistry and Biophysics</i> , 2017, 634, 29-37. | 3.0 | 3 |
| 81 | Characteristics, dynamics and mechanisms of actions of some major stress-induced biomacromolecules; addressing <i>Artemia</i> as an excellent biological model. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 5619-5637. | 3.5 | 3 |
| 82 | Thermostability of Ctenophore and Coelenterate Ca^{2+} -Regulated Apo-photoproteins: A Comparative Study. <i>ACS Chemical Biology</i> , 2021, 16, 1538-1545. | 3.4 | 3 |
| 83 | Investigating the effect of structural transition on aggregation of β -lactoglobulin. <i>Protein and Peptide Letters</i> , 2015, 22, 1089-1097. | 0.9 | 3 |
| 84 | 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. | 1.7 | 2 |
| 85 | Engineering aequorin to improve thermostability through rigidifying flexible sites. <i>Journal of Molecular Structure</i> , 2021, 1240, 130575. | 3.6 | 2 |
| 86 | Stress-dependent conformational changes of artemin: Effects of heat and oxidant. <i>PLoS ONE</i> , 2020, 15, e0242206. | 2.5 | 2 |
| 87 | The Effect of Surface Charge Saturation on Heat-Induced Aggregation of Firefly Luciferase. <i>Photochemistry and Photobiology</i> , 2015, 91, 1156-1164. | 2.5 | 1 |
| 88 | An alternative allosteric pathway in thermophilic methylglyoxal synthase. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 526-533. | 7.5 | 1 |
| 89 | Modulation of the competition between renaturation and aggregation of lysozyme by additive mixtures. <i>Biotechnology and Applied Biochemistry</i> , 2019, 67, 330-342. | 3.1 | 1 |
| 90 | Soluble overexpression, high-level production and purification of receptor binding domain of human VEGF8-109 in <i>E. coli</i> . <i>Process Biochemistry</i> , 2020, 96, 228-238. | 3.7 | 1 |

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|-----|--|-----|-----------|
| 91 | Ca ²⁺ Binding and Conformational Switch of the Photoprotein Mnemiopsin. Protein and Peptide Letters, 2017, 24, 476-482. | 0.9 | 1 |
| 92 | Anti-amyloidogenic effect of artemin on β -synuclein. Biological Chemistry, 2019, . | 2.5 | 1 |
| 93 | Molecular Docking and In Silico Study of Denileukin Diftitox: Comparison of Wild Type With C519S Mutant. Research in Molecular Medicine, 2020, 8, 83-92. | 0.2 | 0 |
| 94 | Directed Blocking of TGF- β 2 Receptor I Binding Site Using Tailored Peptide Segments to Inhibit its Signaling Pathway. Iranian Journal of Biotechnology, 2020, 18, e2561. | 0.3 | 0 |
| 95 | Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206. | | 0 |
| 96 | Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206. | | 0 |
| 97 | Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206. | | 0 |
| 98 | Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206. | | 0 |
| 99 | Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206. | | 0 |
| 100 | Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206. | | 0 |