

# 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	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
2	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
3	Facile and Rapid Detection of Microalbuminuria by Antibody-Functionalized Gold Nanorods. <i>Plasmonics</i> , 2022, 17, 1269-1277.	3.4	4
4	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
5	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
6	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
7	Interplay of isoform 1N4R tau protein and amyloid- $\beta$ peptide fragment 25-35 in reducing and non-reducing conditions. <i>Journal of Biochemistry</i> , 2021, 169, 119-134.	1.7	2
8	Thermostability of Ctenophore and Coelenterate Ca <sup>2+</sup> -Regulated Apo-photoproteins: A Comparative Study. <i>ACS Chemical Biology</i> , 2021, 16, 1538-1545.	3.4	3
9	Engineering aequorin to improve thermostability through rigidifying flexible sites. <i>Journal of Molecular Structure</i> , 2021, 1240, 130575.	3.6	2
10	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
11	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
12	The application of the QDs/H <sub>2</sub> O <sub>2</sub> chemiluminescence system in HRP assay and HRP-based immunoassay. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 206, 111942.	5.0	6
13	Mutual effects of protein corona formation on CdTe quantum dots. <i>Analytical Biochemistry</i> , 2020, 610, 113983.	2.4	11
14	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
15	RepCOOL: computational drug repositioning via integrating heterogeneous biological networks. <i>Journal of Translational Medicine</i> , 2020, 18, 375.	4.4	13
16	Crosstalk between melatonin and Ca <sup>2+</sup> /CaM evokes systemic salt tolerance in <i>Dracocephalum kotschyi</i> . <i>Journal of Plant Physiology</i> , 2020, 252, 153237.	3.5	44
17	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
18	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

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19	Targeted anticancer prodrug therapy using dextran mediated enzyme-antibody conjugate and $\beta$ -cyclodextrin-curcumin inclusion complex. <i>International Journal of Biological Macromolecules</i> , 2020, 160, 1029-1041.	7.5	11
20	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
21	Enhanced sensitivity of VEGF detection using catalase-mediated chemiluminescence immunoassay based on CdTe QD/H <sub>2</sub> O <sub>2</sub> system. <i>Journal of Nanobiotechnology</i> , 2020, 18, 93.	9.1	11
22	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
23	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
24	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
25	Molecular Docking and In Silico Study of Denileukin Diftitox: Comparison of Wild Type With C519S Mutant. <i>Research in Molecular Medicine</i> , 2020, 8, 83-92.	0.2	0
26	Anti-amyloidogenic effect of artemin on $\alpha$ -synuclein. <i>Biological Chemistry</i> , 2020, 401, 1143-1151.	2.5	4
27	Stress-dependent conformational changes of artemin: Effects of heat and oxidant. <i>PLoS ONE</i> , 2020, 15, e0242206.	2.5	2
28	Directed Blocking of TGF- $\beta$ Receptor I Binding Site Using Tailored Peptide Segments to Inhibit its Signaling Pathway. <i>Iranian Journal of Biotechnology</i> , 2020, 18, e2561.	0.3	0
29	Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206.		0
30	Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206.		0
31	Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206.		0
32	Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206.		0
33	Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206.		0
34	Stress-dependent conformational changes of artemin: Effects of heat and oxidant. , 2020, 15, e0242206.		0
35	Bioluminescence Detection of Superoxide Anion Using Aequorin. <i>Analytical Chemistry</i> , 2019, 91, 12768-12774.	6.5	12
36	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

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37	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
38	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
39	Exploring single-domain antibody thermostability by molecular dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 3686-3696.	3.5	13
40	Anti-amyloidogenic effect of artemin on $\alpha$ -synuclein. <i>Biological Chemistry</i> , 2019, .	2.5	1
41	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
42	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
43	Synthesis and catalytic evaluation of Fe <sub>3</sub> O <sub>4</sub> /MWCNTs nanozyme as recyclable peroxidase mimetics: Biochemical and physicochemical characterization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4018.	3.5	16
44	Insight into the aggregation of lipase from <i>Pseudomonas</i> sp. using mutagenesis: protection of aggregation prone region by adoption of $\alpha$ -helix structure. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 419-426.	2.1	7
45	Deep Eutectic Solvents as a New Generation of Chemical Chaperones. <i>ChemistrySelect</i> , 2018, 3, 10603-10607.	1.5	9
46	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
47	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
48	afpCOOL: A tool for antifreeze protein prediction. <i>Heliyon</i> , 2018, 4, e00705.	3.2	16
49	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
50	A chemiluminescence-based catalase assay using H <sub>2</sub> O <sub>2</sub> -sensitive CdTe quantum dots. <i>Mikrochimica Acta</i> , 2018, 185, 376.	5.0	13
51	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
52	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
53	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
54	Artemin protects cells and proteins against oxidative and salt stress. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 618-624.	7.5	12

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55	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
56	Biochemical characterization and structural analysis of trypsin from <i>Pterodroma</i> midgut: implication of determinants in extremely alkaline pH activity profile. <i>Physiological Entomology</i> , 2017, 42, 307-318.	1.5	7
57	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
58	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
59	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
60	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
61	Evolutionary conservation of EF-hand $\hat{T}^M$ 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
62	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
63	Allosteric properties of <i>Geobacillus maltogenic</i> amylase. <i>Enzyme and Microbial Technology</i> , 2017, 96, 36-41.	3.2	5
64	QM/MM simulations provide insight into the mechanism of bioluminescence triggering in ctenophore photoproteins. <i>PLoS ONE</i> , 2017, 12, e0182317.	2.5	7
65	Ca <sup>2+</sup> Binding and Conformational Switch of the Photoprotein Mnemiopsin. <i>Protein and Peptide Letters</i> , 2017, 24, 476-482.	0.9	1
66	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
67	An alternative allosteric pathway in thermophilic methylglyoxal synthase. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 526-533.	7.5	1
68	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
69	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
70	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
71	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
72	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

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73	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
74	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
75	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
76	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
77	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
78	Effects of 4-hexylresorcinol on the phenoloxidase from <i>Hyphantria cunea</i> (Lepidoptera: Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 5	3.0	16
79	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
80	A conformation-based phage-display panning to screen neutralizing anti-VEGF VHHs with VEGFR2 mimicry behavior. <i>International Journal of Biological Macromolecules</i> , 2015, 77, 222-234.	7.5	17
81	Investigating the effect of structural transition on aggregation of $\beta^2$ -lactoglobulin. <i>Protein and Peptide Letters</i> , 2015, 22, 1089-1097.	0.9	3
82	Fermentative desizing of cotton fabric using an $\alpha$ -amylase-producing <i>Bacillus</i> strain: Optimization of simultaneous enzyme production and desizing. <i>Process Biochemistry</i> , 2014, 49, 1884-1888.	3.7	26
83	Development of a highly-potent anti-angiogenic VEGF <sub>109</sub> heterodimer by directed blocking of its VEGFR <sub>2</sub> binding site. <i>FEBS Journal</i> , 2014, 281, 4479-4494.	4.7	18
84	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
85	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
86	Effect of artemin on structural transition of $\beta^2$ -lactoglobulin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 105, 24-28.	3.9	7
87	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
88	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
89	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
90	Enzymatic desizing of cotton fabric using a Ca <sup>2+</sup> -independent $\alpha$ -amylase with acidic pH profile. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 83, 46-50.	1.8	36

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91	Biochemical characterization of $\hat{1}\pm$ - and $\hat{1}^2$ -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
92	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
93	An analysis of temperature adaptation in cold active, mesophilic and thermophilic <i>Bacillus</i> $\hat{1}\pm$ -amylases. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 1038-1045.	7.5	7
94	Artemin as an Efficient Molecular Chaperone. <i>Protein Journal</i> , 2011, 30, 549-557.	1.6	20
95	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
96	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
97	Cysteine enhances activity and stability of immobilized papain. <i>Amino Acids</i> , 2010, 38, 937-942.	2.7	99
98	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
99	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
100	Comparative studies on trifluoroethanol (TFE) state of a thermophilic $\hat{1}\pm$ -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