

# Bijan Ranjbar

## List of Publications by Year in descending order

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100  
papers

3,065  
citations

186265

28  
h-index

175258

52  
g-index

102  
all docs

102  
docs citations

102  
times ranked

4397  
citing authors

#	ARTICLE	IF	CITATIONS
1	An insight into the potentials of carbon dots for in vitro live-cell imaging: recent progress, challenges, and prospects. <i>Mikrochimica Acta</i> , 2022, 189, 190.	5.0	16
2	An experimental investigation on the influence of various buffer concentrations, osmolytes and gold nanoparticles on lysozyme: Spectroscopic and calorimetric study. <i>International Journal of Biological Macromolecules</i> , 2021, 172, 162-169.	7.5	8
3	A Novel Strategy for Trinitrotoluene Detection Using Functionalized Gold Nanoparticles. <i>Journal of Analytical Chemistry</i> , 2021, 76, 459-465.	0.9	1
4	Recent advances in the rational synthesis of red-emissive carbon dots for nanomedicine applications: A review. <i>FlatChem</i> , 2021, 29, 100271.	5.6	24
5	Evaluation of Rationally Designed Label-free Stem-loop DNA Probe Opening in the Presence of miR-21 by Circular Dichroism and Fluorescence Techniques. <i>Scientific Reports</i> , 2020, 10, 4018.	3.3	8
6	Electrochemical detection of DNA mismatches using a branch-shaped hierarchical SWNT-DNA nano-hybrid bioelectrode. <i>Materials Science and Engineering C</i> , 2019, 104, 109886.	7.3	10
7	Design and Fabrication of a Silver Nanocluster-Based Aptasensor for Lysozyme Detection. <i>Plasmonics</i> , 2019, 14, 1765-1774.	3.4	12
8	Development of Gold Nanorods-Insulin Amyloid Fibril Assemblies: A Hybrid Nanoscaffold with Enhanced Conductivity. <i>Nano</i> , 2019, 14, 1950158.	1.0	1
9	Rational design toward developing a more efficient laccase: Catalytic efficiency and selectivity. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 775-779.	7.5	14
10	Renin inhibition by soyasaponin I: a potent native anti-hypertensive compound. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 166-176.	3.5	12
11	Improving the stability of chondroitinase ABC I via interaction with gold nanorods. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 297-304.	7.5	11
12	Assembly of Gold Nanorods on HSA Amyloid Fibrils to Develop a Conductive Nanoscaffold for Potential Biomedical and Biosensing Applications. <i>Scientific Reports</i> , 2018, 8, 9333.	3.3	22
13	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
14	Biophysical and electrochemical properties of Self-assembled noncovalent SWNT/DNA hybrid and electroactive nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 208-215.	2.7	7
15	Structural and functional study of a simple, rapid, and label-free DNAzyme-based DNA biosensor for optimization activity. <i>Biopolymers</i> , 2017, 107, e23028.	2.4	5
16	A facile and rapid aptasensor based on split peroxidase DNAzyme for visual detection of carcinoembryonic antigen in saliva. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 794-803.	7.8	40
17	Evolutionary conservation of EF-hand $\uparrow$ TM $\uparrow$ TM 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
18	Ultra-sensitive, rapid gold nanoparticle-quantum dot plexcitonic self-assembled aptamer-based nanobiosensor for the detection of human cardiac troponin I. <i>Engineering in Life Sciences</i> , 2017, 17, 165-174.	3.6	25

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19	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
20	Applying Central Composite Design and Response Surface Methodology to Optimize Growth and Biomass Production of <i>Haemophilus influenzae</i> Type b. <i>Jundishapur Journal of Microbiology</i> , 2016, 9, e25246.	0.5	9
21	Surface Arginine Saturation Effect on Unfolding Reaction of Firefly Luciferase: A Thermodynamic and Kinetic Perspective. <i>Photochemistry and Photobiology</i> , 2016, 92, 688-693.	2.5	1
22	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
23	Unfolding of chondroitinase ABC <sup>TM</sup> is dependent on thermodynamic driving force by kinetically rate constant-amplitude compensation: A stopped-flow fluorescence study. <i>Enzyme and Microbial Technology</i> , 2016, 93-94, 200-206.	3.2	5
24	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
25	MicroRNA and Transcription Factor Gene Regulatory Network Analysis Reveals Key Regulatory Elements Associated with Prostate Cancer Progression. <i>PLoS ONE</i> , 2016, 11, e0168760.	2.5	44
26	A semi-rational approach to obtain an ionic liquid tolerant bacterial laccase through $\pi$ - $\pi$ -type interactions. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 822-829.	7.5	25
27	Engineering of a disulfide loop instead of a Zn binding loop restores the anti-proliferative, anti-angiogenic and anti-tumor activities of the N-terminal fragment of endostatin: Mechanistic and therapeutic insights. <i>Vascular Pharmacology</i> , 2015, 72, 73-82.	2.1	12
28	Heat induced aggregation of gold nanorods for rapid visual detection of lysozyme. <i>Talanta</i> , 2015, 144, 778-787.	5.5	21
29	Critical Role of a Loop at C-Terminal Domain on the Conformational Stability and Catalytic Efficiency of Chondroitinase ABC I. <i>Molecular Biotechnology</i> , 2015, 57, 727-734.	2.4	18
30	Spectral properties and thermal stability of AS1411 G-quadruplex. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 806-811.	7.5	30
31	Plasmonic Circular Dichroism Study of DNA-Gold Nanoparticles Bioconjugates. <i>Plasmonics</i> , 2014, 9, 273-281.	3.4	16
32	Surface plasmon resonance coupled circular dichroism of DNA-gold nanorods assembly. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 315401.	2.8	11
33	Protein engineering of laccase to enhance its activity and stability in the presence of organic solvents. <i>Engineering in Life Sciences</i> , 2014, 14, 442-448.	3.6	49
34	Conformational changes of a chemically modified HRP: formation of a molten globule like structure at pH 5. <i>EXCLI Journal</i> , 2014, 13, 611-22.	0.7	3
35	Enhancement of catalysis and functional expression of a bacterial laccase by single amino acid replacement. <i>International Journal of Biological Macromolecules</i> , 2013, 60, 56-61.	7.5	28
36	Structure-function analysis of a new bacterial lipase: Effect of local structure reorganization on lipase activity. <i>International Journal of Biological Macromolecules</i> , 2013, 54, 180-185.	7.5	7

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37	Kinetic and thermodynamic properties of pseudomonas fluorescence lipase upon addition of proline. International Journal of Biological Macromolecules, 2013, 55, 123-126.	7.5	9
38	An efficient in vitro refolding of recombinant bacterial laccase in Escherichia coli. Enzyme and Microbial Technology, 2013, 52, 325-330.	3.2	28
39	Evidence regarding the hypothesis that the histidine-histidine contact pairs may affect protein stability. International Journal of Biological Macromolecules, 2012, 50, 1040-1047.	7.5	7
40	Conformation and activity of lysozyme on binding to two types of gold nanorods: A comparative study. International Journal of Biological Macromolecules, 2012, 51, 91-96.	7.5	17
41	Functional Motions of Candida antarctica Lipase B: A Survey through Open-Close Conformations. PLoS ONE, 2012, 7, e40327.	2.5	44
42	Inhibition mediated stabilization effect of imidazolium based ionic liquids on alcohol dehydrogenase. Journal of Molecular Liquids, 2012, 170, 66-71.	4.9	26
43	Effect of ionic liquids on the structure, stability and activity of two related $\alpha$ -amylases. International Journal of Biological Macromolecules, 2011, 48, 93-97.	7.5	64
44	Interaction of lysozyme with gold nanorods: conformation and activity investigations. International Journal of Biological Macromolecules, 2011, 49, 629-636.	7.5	28
45	Effects of trehalose and sorbitol on the activity and structure of Pseudomonas cepacia lipase: Spectroscopic insight. International Journal of Biological Macromolecules, 2011, 49, 652-656.	7.5	26
46	Enhancement of a bacterial laccase thermostability through directed mutagenesis of a surface loop. Enzyme and Microbial Technology, 2011, 49, 446-452.	3.2	62
47	Acid-Induced Formation of Molten Globule States in the Wild Type Escherichia coli 5-Enolpyruvylshikimate 3-Phosphate Synthase and its Three Mutated Forms: G96A, A183T and G96A/A183T. Protein Journal, 2011, 30, 132-137.	1.6	6
48	The effect of surface charge balance on thermodynamic stability and kinetics of refolding of firefly luciferase. BMB Reports, 2011, 44, 102-106.	2.4	9
49	Biomolecular and structural analyses of cauliflower-like DNAs by ultraviolet, circular dichroism, and fluorescence spectroscopies in comparison with natural DNA. Journal of Biomolecular Techniques, 2011, 22, 60-6.	1.5	5
50	Characterization of Acid-Induced Partially Folded Conformation Resembling a Molten Globule State of Polygalacturonase from a Filamentous Fungus Tetracoccusporium sp.. Applied Biochemistry and Biotechnology, 2010, 160, 1921-1932.	2.9	6
51	Roles of trehalose and magnesium sulfate on structural and functional stability of firefly luciferase. Journal of Molecular Catalysis B: Enzymatic, 2010, 62, 127-132.	1.8	27
52	Purification and characterization of a novel amylopullulanase that converts pullulan to glucose, maltose, and maltotriose and starch to glucose and maltose. Enzyme and Microbial Technology, 2010, 46, 57-63.	3.2	43
53	Structure of <i>Bacillus amyloliquefaciens</i> $\alpha$ -amylase at high resolution: implications for thermal stability. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 121-129.	0.7	48
54	Relationship between stability and bioluminescence color of firefly luciferase. Photochemical and Photobiological Sciences, 2010, 9, 376-383.	2.9	16

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55	Enhanced activity and stability in the presence of organic solvents by increased active site polarity and stabilization of a surface loop in a metalloprotease. <i>Journal of Biochemistry</i> , 2010, 148, 231-238.	1.7	27
56	Differential scanning calorimetry techniques: applications in biology and nanoscience. <i>Journal of Biomolecular Techniques</i> , 2010, 21, 167-93.	1.5	202
57	Circular Dichroism Techniques: Biomolecular and Nanostructural Analyses—A Review. <i>Chemical Biology and Drug Design</i> , 2009, 74, 101-120.	3.2	483
58	Co-solvent effects on structure and function properties of savinase: Solvent-induced thermal stabilization. <i>International Journal of Biological Macromolecules</i> , 2009, 44, 311-315.	7.5	11
59	PCR-based Gene Synthesis, Molecular Cloning, High Level Expression, Purification, and Characterization of Novel Antimicrobial Peptide, Brevinin-2R, in <i>Escherichia Coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2008, 149, 109-118.	2.9	27
60	Dendrosomes as novel gene porters-III. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 912-920.	3.2	30
61	Comparative studies of wild type <i>Escherichia coli</i> 5-enolpyruvylshikimate 3-phosphate synthase with three glyphosate-insensitive mutated forms: Activity, stability and structural characterization. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1167-1175.	2.3	11
62	Structural studies of hen egg-white lysozyme dimer: Comparison with monomer. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1043-1049.	2.3	23
63	Spectroscopic and functional characterization of <i>Lampyris turkestanicus</i> luciferase: a comparative study. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008, 40, 365-374.	2.0	22
64	Site-directed mutagenesis of firefly luciferase: implication of conserved residue(s) in bioluminescence emission spectra among firefly luciferases. <i>Biochemical Journal</i> , 2008, 412, 27-33.	3.7	48
65	The Influence of Insertion of a Critical Residue (Arg356) in Structure and Bioluminescence Spectra of Firefly Luciferase. <i>Journal of Biological Chemistry</i> , 2007, 282, 8641-8647.	3.4	92
66	Stabilization of <i>Bacillus licheniformis</i> $\alpha$ -amylase by specific antibody which recognizes the N-terminal fragment of the enzyme. <i>International Journal of Biological Macromolecules</i> , 2007, 41, 162-167.	7.5	2
67	Application of zero-length cross-linking to form lysozyme, horseradish peroxidase and lysozyme-peroxidase dimers: Activity and stability. <i>International Journal of Biological Macromolecules</i> , 2007, 41, 624-630.	7.5	6
68	A study on the self assembly of Fe(II) and dual binding of Ni(II) porphyrazines on CT-DNA. <i>Journal of Porphyrins and Phthalocyanines</i> , 2007, 11, 805-814.	0.8	12
69	Interaction of Saffron Carotenoids as Anticancer Compounds with ctDNA, Oligo (dG.dC) <sub>15</sub> , and Oligo (dA.dT) <sub>15</sub> . <i>DNA and Cell Biology</i> , 2007, 26, 533-540.	1.9	97
70	Expression, purification and immobilization of firefly luciferase on alkyl-substituted Sepharose 4B. <i>Enzyme and Microbial Technology</i> , 2007, 40, 740-746.	3.2	21
71	Kinetic analysis, structural studies and prediction of pKa values of <i>Bacillus</i> KR-8104 $\alpha$ -amylase: The determinants of pH-activity profile. <i>Enzyme and Microbial Technology</i> , 2007, 41, 337-345.	3.2	12
72	A stopped-flow fluorescence study of the native and modified lysozyme. <i>Biologia (Poland)</i> , 2007, 62, 258-264.	1.5	2

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73	Nucleotide Sequence, Structural Investigation and Homology Modeling Studies of a Ca <sup>2+</sup> -independent $\alpha$ -amylase with Acidic pH-profile. BMB Reports, 2007, 40, 315-324.	2.4	8
74	Critical Role of Glu175 on Stability and Folding of Bacterial Luciferase: Stopped-flow Fluorescence Study. BMB Reports, 2007, 40, 453-458.	2.4	8
75	A study of the oxidation-induced conformational and functional changes in neuroserpin. Iranian Biomedical Journal, 2007, 11, 41-46.	0.7	7
76	Thermostabilization of Bacillus amyloliquefaciens $\alpha$ -amylase by chemical cross-linking. Journal of Biotechnology, 2006, 123, 434-442.	3.8	13
77	Effects of water-miscible solvents and polyhydroxy compounds on the structure and enzymatic activity of thermolysin. Journal of Biotechnology, 2006, 127, 45-53.	3.8	37
78	Application of quantum dots in quantitative proteomics for multiplex colour system assay. Medical Hypotheses, 2006, 67, 203-204.	1.5	1
79	Stepwise modification of lysine residues of glucose oxidase with citraconic anhydride. International Journal of Biological Macromolecules, 2006, 39, 192-196.	7.5	15
80	Isolation and biochemical characterization of laccase and tyrosinase activities in a novel melanogenic soil bacterium. Enzyme and Microbial Technology, 2006, 39, 1409-1416.	3.2	68
81	Comparison of the molten globule states of thermophilic and mesophilic $\alpha$ -amylases. Biophysical Chemistry, 2006, 122, 58-65.	2.8	15
82	Horseradish peroxidase thermostabilization: The combinatorial effects of the surface modification and the polyols. Enzyme and Microbial Technology, 2006, 38, 118-125.	3.2	47
83	Acidic and proteolytic digestion of $\alpha$ -amylases from Bacillus licheniformis and Bacillus amyloliquefaciens: Stability and flexibility analysis. Enzyme and Microbial Technology, 2006, 38, 422-428.	3.2	13
84	A study on the binding of two water-soluble tetrapyridinoporphyrinato copper(II) complexes to DNA. Journal of Molecular Structure, 2005, 754, 116-123.	3.6	50
85	A Ca-independent $\alpha$ -amylase that is active and stable at low pH from the Bacillus sp. KR-8104. Enzyme and Microbial Technology, 2005, 36, 666-671.	3.2	110
86	Deglycosylation of glucoamylase from Aspergillus niger: Effects on structure, activity and stability. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1750, 61-68.	2.3	63
87	Nanotechnology helps medicine: Nanoscale swimmers and their future applications. Medical Hypotheses, 2005, 65, 198-199.	1.5	22
88	A novel application of quantum dots as a tool for storage of CD spectra data in proteomics. Medical Hypotheses, 2005, 65, 821-822.	1.5	1
89	Prediction of protein secondary structure based on residue pair types and conformational states using dynamic programming algorithm. FEBS Letters, 2005, 579, 3397-3400.	2.8	7
90	Implication of a critical residue (Glu175) in structure and function of bacterial luciferase. FEBS Letters, 2005, 579, 4701-4706.	2.8	20

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91	Interaction of an Intermediate Structure of <i>Bacillus subtilis</i> $\alpha$ -Amylase With Alkyl-Substituted Sepharose 4B: A Model of Membrane Translocation. <i>Applied Biochemistry and Biotechnology</i> , 2004, 117, 123-132.	2.9	3
92	Purification, Characterization, and Structural Investigation of a New Moderately Thermophilic and Partially Calcium-Independent Extracellular $\alpha$ -Amylase From <i>Bacillus</i> sp. TM1. <i>Applied Biochemistry and Biotechnology</i> , 2004, 119, 41-50.	2.9	12
93	Thermodynamic and spectroscopic study on the binding of cationic Zn(ii) and Co(ii) tetrapyridinoporphyrazines to calf thymus DNA: the role of the central metal in binding parameters. <i>New Journal of Chemistry</i> , 2004, 28, 1227.	2.8	132
94	Acid-induced conformational changes in <i>Bacillus amyloliquefaciens</i> $\alpha$ -amylase: appearance of a molten globule like state. <i>Enzyme and Microbial Technology</i> , 2004, 35, 51-57.	3.2	20
95	Comparative studies on trifluoroethanol (TFE) state of a thermophilic $\alpha$ -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
96	Chemical modification of glucose oxidase: possible formation of molten globule-like intermediate structure. <i>FEBS Letters</i> , 2004, 561, 213-216.	2.8	22
97	Electrochemical study of thermodynamics of interaction of lysozyme with sodium dodecyl sulfate in binary ethanol-water mixtures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 212, 211-218.	4.7	10
98	Chemical modification of lysine residues in <i>Bacillus</i> $\alpha$ -amylases: effect on activity and stability. <i>Enzyme and Microbial Technology</i> , 2001, 28, 543-549.	3.2	66
99	Chemical modification of bacterial $\alpha$ -amylases: changes in tertiary structures and the effect of additional calcium. <i>BBA - Proteins and Proteomics</i> , 2001, 1548, 229-237.	2.1	55
100	Conformation and Thermal Denaturation of Apocalmodulin: A Role of Electrostatic Mutations. <i>Biochemistry</i> , 1997, 36, 2017-2024.	2.5	104