Behzad Shareghi

List of Publications by Year
in descending order

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75 papers	1,724 citations	172207 29 h-index	329751 37 g-index
75 all docs	75 docs citations	75 times ranked	717 citing authors

#	Article	IF	Citations
1	The influence of Cadaverine on the structure, stability, and activity of acid phosphatase. Journal of Molecular Structure, 2022, 1247, 131372.	1.8	5
2	Structural insights into the binding behavior of NiO with myoglobin. Journal of Molecular Liquids, 2022, 347, 117999.	2.3	4
3	Exploring the structural basis of conformational alterations of myoglobin in the presence of spermine through computational modeling, molecular dynamics simulations, and spectroscopy methods. Journal of Biomolecular Structure and Dynamics, 2022, 40, 3581-3594.	2.0	11
4	The interaction of xylitol with carboxypeptidase A: The influence of xylitol on enzyme structure and activity. Journal of Molecular Structure, 2022, 1250, 131877.	1.8	3
5	Malachite Green, the hazardous materials that can bind to Apo-transferrin and change the iron transfer. International Journal of Biological Macromolecules, 2022, 194, 790-799.	3.6	32
6	Structural insights into the binding behavior of flavonoids naringenin with Human Serum Albumin. Journal of Molecular Liquids, 2022, 349, 118431.	2.3	14
7	Identification of SARS-CoV-2 surface therapeutic targets and drugs using molecular modeling methods for inhibition of the virus entry. Journal of Molecular Structure, 2022, 1256, 132488.	1.8	11
8	Study on the interaction of ethylene glycol with trypsin: Binding ability, activity, and stability. Journal of Molecular Liquids, 2022, 350, 118542.	2.3	17
9	A comparative study of the interaction of naringenin with lysozyme by multi-spectroscopic methods, activity comparisons, and molecular modeling procedures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 271, 120931.	2.0	8
10	Insight of the interaction of Naphthol yellow S with trypsin: experimental and computational techniques. Journal of the Iranian Chemical Society, 2022, 19, 2871-2882.	1.2	6
11	Multi spectroscopy and molecular modeling aspects related to drug interaction of aspirin with alpha chymotrypsin; structural change and protease activity. Journal of Molecular Liquids, 2022, 352, 118698.	2.3	12
12	Structural change of myoglobin structure after binding with spermidine. Journal of Molecular Liquids, 2022, 352, 118691.	2.3	16
13	The effect of putrescine on the lysozyme activity and structure: Spectroscopic approaches and molecular dynamic simulation. Colloids and Surfaces B: Biointerfaces, 2022, 213, 112402.	2.5	5
14	Noncovalent interactions between Quinoline yellow and trypsin: In vitro and in silico methods. Journal of Molecular Liquids, 2022, 353, 118826.	2.3	15
15	Food additive dyeâ€“lysozyme complexation: Determination of binding constants and binding sites by fluorescence spectroscopy and modeling methods. Journal of Molecular Liquids, 2022, 363, 119749.	2.3	14
16	Binding parameters and molecular dynamics of Trypsin-Acid Yellow 17 complexation as a function of concentration. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 281, 121589.	2.0	8
17	Experimental and theoretical investigations on the interaction of glucose molecules with myoglobin in the aqueous solution using theoretical and experimental methods. Journal of Biomolecular Structure and Dynamics, 2021, 39, 6384-6395.	2.0	28
18	The effect of putrescine on stability and structural properties of bovine serum albumin. Journal of Biomolecular Structure and Dynamics, 2021, 39, 254-262.	2.0	1

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19	Interaction of reactive Red195 with human serum albumin: Determination of the binding mechanism and binding site by spectroscopic and molecular modeling methods. Journal of Molecular Liquids, 2021, 327, 114835.	2.3	41
20	The interaction of the green tea polyphenol (catechin) with pepsin: Insights from spectroscopic to molecular dynamics studies. Journal of Molecular Liquids, 2021, 326, 115196.	2.3	30
21	The effect of sorbitol on the structure and activity of carboxypeptidase A: Insights from a spectroscopic and computational approach. Journal of Molecular Liquids, 2021, 330, 115710.	2.3	27
22	Effect of Naphthol yellow S as a food dye on the lysozyme structure and its mechanisms of action. Journal of Molecular Liquids, 2021, 332, 115846.	2.3	34
23	A comparative study of structural and dynamical properties of bovine serum albumin in the presence of spermine. Journal of Molecular Liquids, 2021, 332, 115853.	2.3	7
24	Evaluation of interaction between citrus flavonoid, naringenin, and pepsin using spectroscopic analysis and docking simulation. Journal of Molecular Liquids, 2021, 339, 116763.	2.3	37
25	Insights into the binding mechanism of Putrescine on Î±-amylase by multiple spectroscopic techniques and molecular docking. Journal of Molecular Structure, 2021, 1242, 130702.	1.8	12
26	Characterizing the binding affinity and molecular interplay between quinoline yellow and pepsin. Journal of Molecular Liquids, 2021, 341, 117317.	2.3	35
27	Molecular aspects of the interaction of acid phosphatase with TiO2 nanoparticles: Kinetic and multispectroscopic studies. Journal of Molecular Structure, 2021, 1245, 131268.	1.8	2
28	Comparative studies on the interaction of ascorbic acid with gastric enzyme using multispectroscopic and docking methods. Journal of Molecular Structure, 2021, 1245, 131270.	1.8	20
29	Evaluation of the effect of MnFe2O4 nanoparticles on the activity parameters and stability of acid phosphatase. Monatshefte FÃ¼r Chemie, 2021, 152, 175-184.	0.9	2
30	Investigation on the interaction behavior between safranal and pepsin by spectral and MD simulation studies. Journal of Molecular Liquids, 2021, 344, 117903.	2.3	14
31	Spermine as a possible endogenous allosteric activator of carboxypeptidase A: multispectroscopic and molecular simulation studies. Journal of Biomolecular Structure and Dynamics, 2020, 38, 101-113.	2.0	30
32	Spermine as a porcine pancreatic elastase activator: spectroscopic and molecular simulation studies. Journal of Biomolecular Structure and Dynamics, 2020, 38, 78-88.	2.0	9
33	Study of alkaline phosphatase interaction with putrescine using multi-spectroscopic and docking methods. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110509.	2.5	7
34	Investigating the interaction of porcine pancreatic elastase and propanol: A spectroscopy and molecular simulation study. International Journal of Biological Macromolecules, 2020, 146, 687-691.	3.6	34
35	Comparative studies on the interaction of spermidine with carboxypeptidase A using multispectroscopic and docking methods. International Journal of Biological Macromolecules, 2020, 147, 821-831.	3.6	4
36	Characterization of osmolyte-enzyme interactions using different spectroscopy and molecular dynamic techniques: Binding of sucrose to proteinase K. International Journal of Biological Macromolecules, 2020, 151, 1250-1258.	3.6	10

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37	The interaction of Naphthol Yellow S (NYS) with pepsin: Insights from spectroscopic to molecular dynamics studies. International Journal of Biological Macromolecules, 2020, 165, 1842-1851.	3.6	50
38	Investigation on the interaction of acid phosphatase with putrescine using docking, simulations methods and multispectroscopic techniques. International Journal of Biological Macromolecules, 2020, 150, 90-101.	3.6	37
39	The modifier action of NiO nanoparticles on the activity, structure, and stability of proteinase K. Monatshefte FÃ¼r Chemie, 2020, 151, 429-437.	0.9	3
40	Insight into the binding of glycerol with myoglobin: Spectroscopic and MD simulation approach. International Journal of Biological Macromolecules, 2020, 159, 433-443.	3.6	35
41	Spectroscopic analysis of the interaction between Co3O4 nanoparticles and acid phosphatase. Monatshefte FÃ¼r Chemie, 2020, 151, 637-647.	0.9	4
42	Noncovalent interactions of bovine trypsin with curcumin and effect on stability, structure, and function. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110287.	2.5	38
43	Making bovine trypsin more stable and active by Erythritol: A multispectroscopic analysis, docking and computational simulation methods. Journal of Molecular Liquids, 2019, 292, 111389.	2.3	30
44	Design, synthesis, and anti-gastric cancer activity of novel 2,5-diketopiperazine. Journal of Molecular Liquids, 2019, 294, 111585.	2.3	36
45	Effect of free L-cysteine on the structure and function of Î±-chymotrypsin. Journal of Molecular Liquids, 2019, 280, 79-86.	2.3	37
46	Structural characterization of Î±â€˜chymotrypsin after binding to curcumin: Spectroscopic and computational analysis of their binding mechanism. Journal of Molecular Liquids, 2019, 289, 111111.	2.3	51
47	Investigation on the structure and function of porcine pancreatic elastase (PPE) under the influence of putrescine: A spectroscopy and molecular simulation study. Journal of Molecular Liquids, 2019, 289, 111115.	2.3	11
48	A molecular investigation into the interaction of SiO2 nanoparticles with elastase by multispectroscopic techniques and kinetic studies. International Journal of Biological Macromolecules, 2019, 134, 216-222.	3.6	6
49	Spectroscopic and molecular docking studies on the interaction between spermidine and pancreatic elastase. International Journal of Biological Macromolecules, 2019, 131, 473-483.	3.6	39
50	Experimental and theoretical investigations on the interaction of l-methionine molecules with Î±-chymotrypsin in the aqueous solution using various methods. International Journal of Biological Macromolecules, 2019, 131, 548-556.	3.6	39
51	Spectroscopic investigations on the interaction between cadmium telluride semiconductor nanoparticle and bovine alkaline phosphatase. Spectroscopy Letters, 2019, 52, 81-90.	0.5	5
52	Evaluation of maltose binding to proteinase K: Insights from spectroscopic and computational approach. Journal of Molecular Liquids, 2019, 280, 1-10.	2.3	10
53	Comparative studies on the interaction between biogenic polyamines and bovine intestinal alkaline phosphatases: spectroscopic and theoretical approaches. Journal of Biological Physics, 2019, 45, 89-106.	0.7	2
54	Catalytic activity, structure and stability of proteinase K in the presence of biosynthesized CuO nanoparticles. International Journal of Biological Macromolecules, 2019, 122, 732-744.	3.6	48

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55	Evaluation of maltose on conformation and activity parameters of trypsin. Journal of Biomolecular Structure and Dynamics, 2019, 37, 4557-4562.	2.0	12
56	Insights into the molecular interaction between sucrose and Î±-chymotrypsin. International Journal of Biological Macromolecules, 2018, 114, 950-960.	3.6	46
57	A molecular simulation and spectroscopic approach to the binding affinity between trypsin and 2-propanol and protein conformation. International Journal of Biological Macromolecules, 2018, 119, 477-485.	3.6	33
58	Investigating the MgO nanoparticles and trypsin interaction through spectroscopic methods. Monatshefte FÃ¼r Chemie, 2018, 149, 2131-2136.	0.9	3
59	Exploring the thermal stability and activity of Î±-chymotrypsin in the presence of spermine. Journal of Biomolecular Structure and Dynamics, 2017, 35, 435-448.	2.0	45
60	Interaction of TiO2 nanoparticle with trypsin analyzed by kinetic and spectroscopic methods. Monatshefte FÃ¼r Chemie, 2017, 148, 199-207.	0.9	12
61	Spectroscopic analysis of the interaction between NiO nanoparticles and bovine trypsin. Journal of Biomolecular Structure and Dynamics, 2017, 35, 1381-1388.	2.0	15
62	Conjugation of biogenic polyamine (putrescine) with proteinase K: Spectroscopic and theoretical insights. International Journal of Biological Macromolecules, 2017, 98, 150-158.	3.6	8
63	The functional and structural stabilization of trypsin by sucrose. International Journal of Biological Macromolecules, 2017, 99, 343-349.	3.6	41
64	Multi-spectroscopic and molecular modeling studies of interaction between two different angiotensin I converting enzyme inhibitory peptides from gluten hydrolysate and human serum albumin. Journal of Biomolecular Structure and Dynamics, 2017, 35, 3648-3662.	2.0	93
65	Molecular investigation on the interaction of spermine with proteinase K by multispectroscopic techniques and molecular simulation studies. International Journal of Biological Macromolecules, 2017, 94, 406-414.	3.6	34
66	A spectroscopic and thermal stability study on the interaction between putrescine and bovine trypsin. International Journal of Biological Macromolecules, 2017, 94, 145-153.	3.6	63
67	Green synthesis of zinc oxide nanoparticles and their effect on the stability and activity of proteinase K. RSC Advances, 2016, 6, 42313-42323.	1.7	77
68	Comparative Studies on the Interaction of Spermidine with Bovine Trypsin by Multispectroscopic and Docking Methods. Journal of Physical Chemistry B, 2016, 120, 9632-9641.	1.2	46
69	Molecular aspects of the interaction of spermidine and Î±-chymotrypsin. International Journal of Biological Macromolecules, 2016, 92, 523-532.	3.6	33
70	Counteraction of lactose on the thermal stability and activity of Î±-chymotrypsin: thermodynamic, kinetic and docking studies. RSC Advances, 2016, 6, 72201-72212.	1.7	34
71	The effect of spermidine on the structure, kinetics and stability of proteinase K: spectroscopic and computational approaches. RSC Advances, 2016, 6, 105476-105486.	1.7	16
72	The effect of spermine on the structure, thermal stability and activity of bovine pancreatic trypsin. RSC Advances, 2016, 6, 60633-60642.	1.7	25

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73	The influence of putrescine on the structure, enzyme activity and stability of Î±-chymotrypsin. RSC Advances, 2016, 6, 29264-29278.	1.7	33
74	Cloning, Codon Optimization, and Expression of Yersinia intermedia Phytase Gene in E. coli. Iranian Journal of Biotechnology, 2016, 14, 63-69.	0.3	7
75	Purification and kinetic study of bone and liver alkaline phosphatase isoenzymes in the dog. Comparative Clinical Pathology, 2010, 19, 81-84.	0.3	2