Sadegh Farhadian

List of Publications by Year
in descending order

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67 papers	1,601 citations	185998 28 h-index	360668 35 g-index
68 all docs	68 docs citations	68 times ranked	472 citing authors

#	Article	IF	Citations
1	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
2	An insight into the interaction between malachite green oxalate with human serum albumin: Molecular dynamic simulation and spectroscopic approaches. Journal of Hazardous Materials, 2021, 407, 124878.	6.5	60
3	Investigation the activity and stability of lysozyme on presence of magnetic nanoparticles. Journal of Industrial and Engineering Chemistry, 2015, 21, 862-867.	2.9	54
4	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
5	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
6	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
7	Insights into the molecular interaction between sucrose and Î±-chymotrypsin. International Journal of Biological Macromolecules, 2018, 114, 950-960.	3.6	46
8	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
9	The functional and structural stabilization of trypsin by sucrose. International Journal of Biological Macromolecules, 2017, 99, 343-349.	3.6	41
10	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
11	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
12	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
13	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
14	Effect of free L-cysteine on the structure and function of Î±-chymotrypsin. Journal of Molecular Liquids, 2019, 280, 79-86.	2.3	37
15	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
16	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
17	Design, synthesis, and anti-gastric cancer activity of novel 2,5-diketopiperazine. Journal of Molecular Liquids, 2019, 294, 111585.	2.3	36
18	Evaluation of interactions between food colorant, tartrazine, and Apo-transferrin using spectroscopic analysis and docking simulation. Journal of Molecular Liquids, 2021, 339, 116715.	2.3	36

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19	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
20	Characterizing the binding affinity and molecular interplay between quinoline yellow and pepsin. Journal of Molecular Liquids, 2021, 341, 117317.	2.3	35
21	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
22	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
23	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
24	Molecular aspects of the interaction of spermidine and Î±-chymotrypsin. International Journal of Biological Macromolecules, 2016, 92, 523-532.	3.6	33
25	The influence of putrescine on the structure, enzyme activity and stability of Î±-chymotrypsin. RSC Advances, 2016, 6, 29264-29278.	1.7	33
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	The effect of spermine on the structure, thermal stability and activity of bovine pancreatic trypsin. RSC Advances, 2016, 6, 60633-60642.	1.7	25
34	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
35	A novel insight into the cytotoxic effects of Tephrosin with calf thymus DNA: Experimental and in silico approaches. Journal of Molecular Liquids, 2021, 324, 114728.	2.3	19
36	Deciphering the DNA-binding affinity, cytotoxicity and apoptosis induce as the anticancer mechanism of Bavachinin: An experimental and computational investigation. Journal of Molecular Liquids, 2021, 341, 117373.	2.3	17

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37	Study on the interaction of ethylene glycol with trypsin: Binding ability, activity, and stability. Journal of Molecular Liquids, 2022, 350, 118542.	2.3	17
38	Structural change of myoglobin structure after binding with spermidine. Journal of Molecular Liquids, 2022, 352, 118691.	2.3	16
39	Noncovalent interactions between Quinoline yellow and trypsin: In vitro and in silico methods. Journal of Molecular Liquids, 2022, 353, 118826.	2.3	15
40	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
41	Structural insights into the binding behavior of flavonoids naringenin with Human Serum Albumin. Journal of Molecular Liquids, 2022, 349, 118431.	2.3	14
42	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
43	Insight into the binding behavior, structure, and thermal stability properties of Î²-lactoglobulin/Amoxicillin complex in a neutral environment. Food Hydrocolloids, 2022, 133, 107830.	5.6	13
44	Evaluation of maltose on conformation and activity parameters of trypsin. Journal of Biomolecular Structure and Dynamics, 2019, 37, 4557-4562.	2.0	12
45	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
46	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
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	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
49	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
50	Evaluation of maltose binding to proteinase K: Insights from spectroscopic and computational approach. Journal of Molecular Liquids, 2019, 280, 1-10.	2.3	10
51	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
52	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
53	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
54	The interactions between Reactive Black 5 and human serum albumin: combined spectroscopic and molecular dynamics simulation approaches. Environmental Science and Pollution Research, 2022, 29, 70114-70124.	2.7	8

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55	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
56	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
57	The interaction between the azo dye tartrazine and Î±-Chymotrypsin enzyme: Molecular dynamics simulation and multi-spectroscopic investigations. Journal of Molecular Liquids, 2021, 344, 117931.	2.3	7
58	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
59	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
60	The influence of Cadaverine on the structure, stability, and activity of acid phosphatase. Journal of Molecular Structure, 2022, 1247, 131372.	1.8	5
61	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
62	Structural insights into the binding behavior of NiO with myoglobin. Journal of Molecular Liquids, 2022, 347, 117999.	2.3	4
63	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
64	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
65	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
66	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
67	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