Nasrollah Rezaei-Ghaleh

List of Publications by Citations

47 papers	1,744 citations	22 h-index	41 g-index
53 ext. papers	2,044 ext. citations	7 avg, IF	4.34 L-index

#	Paper	IF	Citations
47	Pre-fibrillar alpha-synuclein variants with impaired beta-structure increase neurotoxicity in Parkinson's disease models. *EMBO Journal*, **2009**, 28, 3256-68	13	348
46	Extracellular phosphorylation of the amyloid β-peptide promotes formation of toxic aggregates during the pathogenesis of Alzheimer's disease. *EMBO Journal*, **2011**, 30, 2255-65	13	129
45	N-truncated amyloid β (Aβ) 4-42 forms stable aggregates and induces acute and long-lasting behavioral deficits. *Acta Neuropathologica*, **2013**, 126, 189-205	14.3	123
44	Inhibition of amyloid fibrillation of lysozyme by indole derivatives--possible mechanism of action. *FEBS Journal*, **2007**, 274, 6415-25	5.7	112
43	Lysine/RNA-interactions drive and regulate biomolecular condensation. *Nature Communications*, **2019**, 10, 2909	17.4	80
42	Intrinsically disordered proteins: from sequence and conformational properties toward drug discovery. *ChemBioChem*, **2012**, 13, 930-50	3.8	74
41	Effect of zinc binding on β-amyloid structure and dynamics: implications for Aβ aggregation. *Biophysical Journal*, **2011**, 101, 1202-11	2.9	72
40	Long-range correlated dynamics in intrinsically disordered proteins. *Journal of the American Chemical Society*, **2014**, 136, 16201-9	16.4	65
39	Phosphorylation of the amyloid β-peptide at Ser26 stabilizes oligomeric assembly and increases neurotoxicity. *Acta Neuropathologica*, **2016**, 131, 525-37	14.3	65
38	Phosphorylation modifies the molecular stability of β-amyloid deposits. *Nature Communications*, **2016**, 7, 11359	17.4	57
37	Effect of polyamines on the structure, thermal stability and 2,2,2-trifluoroethanol-induced aggregation of alpha-chymotrypsin. *International Journal of Biological Macromolecules*, **2007**, 41, 597-604	7.9	56
36	Methylation of lysine 9 in histone H3 directs alternative modes of highly dynamic interaction of heterochromatin protein hHP1β with the nucleosome. *Journal of Biological Chemistry*, **2012**, 287, 33756-65	5.4	53
35	Role of electrostatic interactions in 2,2,2-trifluoroethanol-induced structural changes and aggregation of alpha-chymotrypsin. *Archives of Biochemistry and Biophysics*, **2007**, 457, 160-9	4.1	50
34	Discovery and structure activity relationship of small molecule inhibitors of toxic β-amyloid-42 fibril formation. *Journal of Biological Chemistry*, **2012**, 287, 34786-800	5.4	44
33	The diphenylpyrazole compound anle138b blocks Aβ channels and rescues disease phenotypes in a mouse model for amyloid pathology. *EMBO Molecular Medicine*, **2018**, 10, 32-47	12	39
32	Thermal aggregation of alpha-chymotrypsin: role of hydrophobic and electrostatic interactions. *Biophysical Chemistry*, **2008**, 132, 23-32	3.5	37
31	Turn plasticity distinguishes different modes of amyloid-β aggregation. *Journal of the American Chemical Society*, **2014**, 136, 4913-9	16.4	34

30	Interaction between amyloid beta peptide and an aggregation blocker peptide mimicking islet amyloid polypeptide. *PLoS ONE*, **2011**, 6, e20289	3.7	33
29	Conformational changes of alpha-chymotrypsin in a fibrillation-promoting condition: a molecular dynamics study. *Biophysical Journal*, **2008**, 95, 4139-47	2.9	29
28	Local and Global Dynamics in Intrinsically Disordered Synuclein. *Angewandte Chemie - International Edition*, **2018**, 57, 15262-15266	16.4	29
27	Predicting the rotational tumbling of dynamic multidomain proteins and supramolecular complexes. *Angewandte Chemie - International Edition*, **2013**, 52, 11410-4	16.4	25
26	The potential of zwitterionic nanoliposomes against neurotoxic alpha-synuclein aggregates in Parkinson\'s Disease. *Nanoscale*, **2018**, 10, 9174-9185	7.7	24
25	Structural plasticity in human heterochromatin protein 1 *PLoS ONE*, **2013**, 8, e60887	3.7	19
24	Singlet-filtered NMR spectroscopy. *Science Advances*, **2020**, 6, eaaz1955	14.3	19
23	Intellectual development of children born of mothers who fasted in Ramadan during pregnancy. *International Journal for Vitamin and Nutrition Research*, **2004**, 74, 374-80	1.7	18
22	Phosphorylation Interferes with Maturation of Amyloid- Fibrillar Structure in the N Terminus. *Journal of Biological Chemistry*, **2016**, 291, 16059-67	5.4	17
21	Amyloidogenic potential of alpha-chymotrypsin in different conformational states. *Biopolymers*, **2009**, 91, 28-36	2.2	15
20	Protein-Protein interactions leading to aggregation: Perspectives on mechanism, significance and control. *Journal of the Iranian Chemical Society*, **2010**, 7, 521-544	2	14
19	Reorientational Dynamics of Amyloid- from NMR Spin Relaxation and Molecular Simulation. *Journal of Physical Chemistry Letters*, **2019**, 10, 3369-3375	6.4	12
18	HYCUD: a computational tool for prediction of effective rotational correlation time in flexible proteins. *Bioinformatics*, **2015**, 31, 1319-21	7.2	8
17	Solid-Phase Synthesis and Characterization of N-Terminally Elongated A -x -Peptides. *Chemistry - A European Journal*, **2016**, 22, 8685-93	4.8	6
16	Internalization routes of cell-penetrating melanoma antigen peptides into human dendritic cells. *Experimental Dermatology*, **2014**, 23, 20-6	4	5
15	Thermally induced changes in the structure and activity of yeast hexokinase B. *Biophysical Chemistry*, **2008**, 137, 88-94	3.5	5
14	Biomolecular phase separation through the lens of sodium-23 NMR. *Protein Science*, **2021**, 30, 1315-1325	6.3	5
13	Histidine substitution in the most flexible fragments of firefly luciferase modifies its thermal stability. *Archives of Biochemistry and Biophysics*, **2017**, 629, 8-18	4.1	4

12	Directed Ligand Passage over the Surface of Diffusion-Controlled Enzymes: A Cellular Automata Model. *Lecture Notes in Computer Science*, **2004**, 719-724	0.9	4
11	A facile oxygen-17 NMR method to determine effective viscosity in dilute, molecularly crowded and confined aqueous media. *Chemical Communications*, **2019**, 55, 12404-12407	5.8	3
10	Multiple Protective Roles of Nanoliposome-Incorporated Baicalein against Alpha-Synuclein Aggregates. *Advanced Functional Materials*, **2021**, 31, 2007765	15.6	3
9	Vorhersage der Rotationskorrelationszeit in dynamischen Mehrdomänenproteinen und supramolekularen Komplexen. *Angewandte Chemie*, **2013**, 125, 11621-11625	3.6	2
8	The Calcium-free form of Atorvastatin inhibits amyloid-β(1-42) aggregation in vitro.. *Journal of Biological Chemistry*, **2022**, 101662	5.4	2
7	Molecular Diffusivity of Click Reaction Components: The Diffusion Enhancement Question.. *Journal of the American Chemical Society*, **2022**, 144, 1380-1388	16.4	1
6	Combined High-Pressure and Multiquantum NMR and Molecular Simulation Propose a Role for N-Terminal Salt Bridges in Amyloid-Beta. *Journal of Physical Chemistry Letters*, **2021**, 12, 9933-9939	6.4	1
5	Early Divergence in Misfolding Pathways of Amyloid-Beta Peptides. *ChemPhysChem*, **2021**, 22, 2158-2163	3.2	1
4	Reverse allostasis in biological systems: Minimal conditions and implications. *Journal of Theoretical Biology*, **2017**, 426, 134-139	2.3	
3	Signaling in biological systems: insights from communication theory. *Journal of Theoretical Biology*, **2003**, 224, 411-2	2.3	
2	Lattice Gas Automata Simulation of 2D Site-Percolation Diffusion: Configuration Dependence of the Theoretically Expected Crossover of Diffusion Regime. *Lecture Notes in Computer Science*, **2008**, 274-281	0.9	
1	Lokale und globale Dynamik im ungeordneten Synuklein-Protein. *Angewandte Chemie*, **2018**, 130, 15482-15486	3.6	