Johnny Habchi

List of Publications by Year in Descending Order

53 papers	2,224 citations	24 h-index	46 g-index
55 ext. papers	2,823 ext. citations	10.5 avg, IF	4.98 L-index

#	Paper	IF	Citations
53	Proliferation of Tau 304-380 Fragment Aggregates through Autocatalytic Secondary Nucleation. *ACS Chemical Neuroscience*, **2021**, 12, 4406-4415	5.7	2
52	Squalamine and Its Derivatives Modulate the Aggregation of Amyloid-β and α-Synuclein and Suppress the Toxicity of Their Oligomers. *Frontiers in Neuroscience*, **2021**, 15, 680026	5.1	11
51	Two human metabolites rescue a C. elegans model of Alzheimer's disease via a cytosolic unfolded protein response. *Communications Biology*, **2021**, 4, 843	6.7	1
50	Structural and dynamics analysis of intrinsically disordered proteins by high-speed atomic force microscopy. *Nature Nanotechnology*, **2021**, 16, 181-189	28.7	21
49	Infrared nanospectroscopy reveals the molecular interaction fingerprint of an aggregation inhibitor with single Aβ42 oligomers. *Nature Communications*, **2021**, 12, 688	17.4	11
48	Quantifying misfolded protein oligomers as drug targets and biomarkers in Alzheimer and Parkinson diseases. *Nature Reviews Chemistry*, **2021**, 5, 277-294	34.6	10
47	A dopamine metabolite stabilizes neurotoxic amyloid-β oligomers. *Communications Biology*, **2021**, 4, 19	6.7	6
46	Rational design of a conformation-specific antibody for the quantification of Aβ oligomers. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13509-13518	11.5	26
45	Complexity in Lipid Membrane Composition Induces Resilience to Aβ Aggregation. *ACS Chemical Neuroscience*, **2020**, 11, 1347-1352	5.7	10
44	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid-β Oligomers. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
43	Transthyretin Inhibits Primary and Secondary Nucleations of Amyloid-β Peptide Aggregation and Reduces the Toxicity of Its Oligomers. *Biomacromolecules*, **2020**, 21, 1112-1125	6.9	28
42	Screening of small molecules using the inhibition of oligomer formation in α-synuclein aggregation as a selection parameter. *Communications Chemistry*, **2020**, 3,	6.3	4
41	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. *Communications Biology*, **2020**, 3, 435	6.7	23
40	Chemical and mechanistic analysis of photodynamic inhibition of Alzheimer's β-amyloid aggregation. *Chemical Communications*, **2019**, 55, 1152-1155	5.8	11
39	Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. *Science Advances*, **2019**, 5, eaax5108	14.3	10
38	Trodusquemine enhances Aβ aggregation but suppresses its toxicity by displacing oligomers from cell membranes. *Nature Communications*, **2019**, 10, 225	17.4	69
37	Chemical Kinetics for Bridging Molecular Mechanisms and Macroscopic Measurements of Amyloid Fibril Formation. *Annual Review of Physical Chemistry*, **2018**, 69, 273-298	15.7	98

36	Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. *Journal of Neuroscience Methods*, **2018**, 306, 57-67	3	35
35	Stabilization and Characterization of Cytotoxic A□Oligomers Isolated from an Aggregation Reaction in the Presence of Zinc Ions. *ACS Chemical Neuroscience*, **2018**, 9, 2959-2971	5.7	33
34	Structure-based design of allosteric calpain-1 inhibitors populating a novel bioactivity space. *European Journal of Medicinal Chemistry*, **2018**, 157, 1264-1275	6.8	6
33	Cholesterol catalyses A□42 aggregation through a heterogeneous nucleation pathway in the presence of lipid membranes. *Nature Chemistry*, **2018**, 10, 673-683	17.6	126
32	Microfluidic deposition for resolving single-molecule protein architecture and heterogeneity. *Nature Communications*, **2018**, 9, 3890	17.4	19
31	SAR by kinetics for drug discovery in protein misfolding diseases. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10245-10250	11.5	32
30	Systematic development of small molecules to inhibit specific microscopic steps of A□42 aggregation in Alzheimer□s disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E200-E208	11.5	134
29	Monomeric and fibrillar □synuclein exert opposite effects on the catalytic cycle that promotes the proliferation of A□42 aggregates. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 8005-8010	11.5	27
28	Interfacial Properties of N, an Intrinsically Disordered Protein. *Biophysical Journal*, **2017**, 113, 2723-2735	2.9	5
27	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic A□42 aggregates linked with Alzheimer□s disease. *Science Advances*, **2016**, 2, e1501244	14.3	133
26	A Fragment-Based Method of Creating Small-Molecule Libraries to Target the Aggregation of Intrinsically Disordered Proteins. *ACS Combinatorial Science*, **2016**, 18, 144-53	3.9	29
25	AFM-Based Single Molecule Techniques: Unraveling the Amyloid Pathogenic Species. *Current Pharmaceutical Design*, **2016**, 22, 3950-70	3.3	58
24	Order and Disorder in the Replicative Complex of Paramyxoviruses. *Advances in Experimental Medicine and Biology*, **2015**, 870, 351-81	3.6	9
23	Dynamics of the intrinsically disordered C-terminal domain of the nipah virus nucleoprotein and interaction with the x domain of the phosphoprotein as unveiled by NMR spectroscopy. *ChemBioChem*, **2015**, 16, 268-76	3.8	22
22	Molecular basis for structural heterogeneity of an intrinsically disordered protein bound to a partner by combined ESI-IM-MS and modeling. *Journal of the American Society for Mass Spectrometry*, **2015**, 26, 472-81	3.5	39
21	The inverted free energy landscape of an intrinsically disordered peptide by simulations and experiments. *Scientific Reports*, **2015**, 5, 15449	4.9	84
20	Structural Disorder within Paramyxoviral Nucleoproteins and Phosphoproteins in Their Free and Bound Forms: From Predictions to Experimental Assessment. *International Journal of Molecular Sciences*, **2015**, 16, 15688-726	6.3	13
19	Neuronal Cx3cr1 Deficiency Protects against Amyloid □Induced Neurotoxicity. *PLoS ONE*, **2015**, 10, e0127730	3.7	16

18	Structural disorder in viral proteins. *Chemical Reviews*, **2014**, 114, 6880-911	68.1	133
17	Introducing protein intrinsic disorder. *Chemical Reviews*, **2014**, 114, 6561-88	68.1	487
16	Diversification of EPR signatures in Site Directed Spin Labeling using a □phosphorylated nitroxide. *Physical Chemistry Chemical Physics*, **2014**, 16, 4202-9	3.6	11
15	Coiled-coil deformations in crystal structures: the measles virus phosphoprotein multimerization domain as an illustrative example. *Acta Crystallographica Section D: Biological Crystallography*, **2014**, 70, 1589-603		24
14	Assessing induced folding within the intrinsically disordered C-terminal domain of the Henipavirus nucleoproteins by site-directed spin labeling EPR spectroscopy. *Journal of Biomolecular Structure and Dynamics*, **2013**, 31, 453-71	3.6	30
13	Atomic resolution description of the interaction between the nucleoprotein and phosphoprotein of Hendra virus. *PLoS Pathogens*, **2013**, 9, e1003631	7.6	56
12	Extracting structural information from charge-state distributions of intrinsically disordered proteins by non-denaturing electrospray-ionization mass spectrometry. *Intrinsically Disordered Proteins*, **2013**, 1, e25068		22
11	Compaction and binding properties of the intrinsically disordered C-terminal domain of Henipavirus nucleoprotein as unveiled by deletion studies. *Molecular BioSystems*, **2012**, 8, 392-410		38
10	Interaction between the C-terminal domains of measles virus nucleoprotein and phosphoprotein: a tight complex implying one binding site. *Protein Science*, **2012**, 21, 1577-85	6.3	13
9	Monitoring structural transitions in IDPs by vibrational spectroscopy of cyanylated cysteine. *Methods in Molecular Biology*, **2012**, 895, 245-70	1.4	3
8	Monitoring structural transitions in IDPs by site-directed spin labeling EPR spectroscopy. *Methods in Molecular Biology*, **2012**, 895, 361-86	1.4	11
7	Structural disorder within paramyxovirus nucleoproteins and phosphoproteins. *Molecular BioSystems*, **2012**, 8, 69-81		55
6	Plasticity in structural and functional interactions between the phosphoprotein and nucleoprotein of measles virus. *Journal of Biological Chemistry*, **2012**, 287, 11951-67	5.4	30
5	Transcription et r□plication des Mononegavirales´: une machine mol□ulaire originale. *Virologie*, **2012**, 16, 225-257	0.4	15
4	Structural Disorder within the Nucleoprotein and Phosphoprotein from Measles, Nipah, and Hendra Viruses **2011**, 47-94		5
3	Dividing to unveil protein microheterogeneities: traveling wave ion mobility study. *Analytical Chemistry*, **2011**, 83, 7306-15	7.8	9
2	Characterization of the interactions between the nucleoprotein and the phosphoprotein of Henipavirus. *Journal of Biological Chemistry*, **2011**, 286, 13583-602	5.4	51
1	Structural disorder within Henipavirus nucleoprotein and phosphoprotein: from predictions to experimental assessment. *PLoS ONE*, **2010**, 5, e11684	3.7	63