

# Young-Ho Lee

## List of Publications by Year in descending order

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54  
papers

4,030  
citations

257450

24  
h-index

168389

53  
g-index

59  
all docs

59  
docs citations

59  
times ranked

6266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate secondary structure prediction and fold recognition for circular dichroism spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3095-103.	7.1	1,215
2	BeStSel: a web server for accurate protein secondary structure prediction and fold recognition from the circular dichroism spectra. Nucleic Acids Research, 2018, 46, W315-W322.	14.5	771
3	Graphene quantum dots prevent $\alpha$ -synucleinopathy in Parkinson's disease. Nature Nanotechnology, 2018, 13, 812-818.	31.5	339
4	Distinguishing crystal-like amyloid fibrils and glass-like amorphous aggregates from their kinetics of formation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14446-14451.	7.1	256
5	Reduced Lipid Bilayer Thickness Regulates the Aggregation and Cytotoxicity of Amyloid- $\beta$ . Journal of Biological Chemistry, 2017, 292, 4638-4650.	3.4	145
6	Biophysical processes underlying cross-seeding in amyloid aggregation and implications in amyloid pathology. Biophysical Chemistry, 2021, 269, 106507.	2.8	101
7	Impact of membrane curvature on amyloid aggregation. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1741-1764.	2.6	88
8	Heat of supersaturation-limited amyloid burst directly monitored by isothermal titration calorimetry. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6654-6659.	7.1	82
9	Small Liposomes Accelerate the Fibrillation of Amyloid $\beta$ (1-40). Journal of Biological Chemistry, 2015, 290, 815-826.	3.4	78
10	Cold Denaturation of $\alpha$ -Synuclein Amyloid Fibrils. Angewandte Chemie - International Edition, 2014, 53, 7799-7804.	13.8	72
11	The Protein Disulfide Isomerase Family: from proteostasis to pathogenesis. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129338.	2.4	66
12	A Comprehensive Model for Packing and Hydration for Amyloid Fibrils of $\beta$ 2-Microglobulin. Journal of Biological Chemistry, 2009, 284, 2169-2175.	3.4	52
13	Reversible Heat-Induced Dissociation of $\beta$ 2-Microglobulin Amyloid Fibrils. Biochemistry, 2011, 50, 3211-3220.	2.5	52
14	Three-dimensional Structure of Nylon Hydrolase and Mechanism of Nylon-6 Hydrolysis. Journal of Biological Chemistry, 2012, 287, 5079-5090.	3.4	48
15	Supersaturation-limited Amyloid Fibrillation of Insulin Revealed by Ultrasonication. Journal of Biological Chemistry, 2014, 289, 18228-18238.	3.4	45
16	Model membrane size-dependent amyloidogenesis of Alzheimer's amyloid- $\beta$ peptides. Physical Chemistry Chemical Physics, 2017, 19, 16257-16266.	2.8	42
17	Solubility and Supersaturation-Dependent Protein Misfolding Revealed by Ultrasonication. Langmuir, 2014, 30, 1845-1854.	3.5	37
18	The Monomer-Seed Interaction Mechanism in the Formation of the $\beta$ 2-Microglobulin Amyloid Fibril Clarified by Solution NMR Techniques. Journal of Molecular Biology, 2012, 422, 390-402.	4.2	35

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19	Membrane-induced initial structure of $\hat{I}$ -synuclein control its amyloidogenesis on model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 757-766.	2.6	33
20	Diverse Structural Conversion and Aggregation Pathways of Alzheimer's Amyloid- $\hat{I}^2$ (1 $\hat{I}$ "40). <i>ACS Nano</i> , 2019, 13, 8766-8783.	14.6	33
21	Zinc boosts EGCG's hIAPP amyloid Inhibition both in solution and membrane. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 529-536.	2.3	32
22	Binding Energetics of Ferredoxin $\hat{I}$ -NADP <sup>+</sup> Reductase with Ferredoxin and Its Relation to Function. <i>ChemBioChem</i> , 2011, 12, 2062-2070.	2.6	30
23	Targeting $\hat{I}$ -synuclein aggregation and its role in mitochondrial dysfunction in Parkinson's disease. <i>British Journal of Pharmacology</i> , 2022, 179, 23-45.	5.4	29
24	Kinetic intermediates of amyloid fibrillation studied by hydrogen exchange methods with nuclear magnetic resonance. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1307-1323.	2.3	25
25	Cores and pH-dependent Dynamics of Ferredoxin-NADP <sup>+</sup> Reductase Revealed by Hydrogen/Deuterium Exchange. <i>Journal of Biological Chemistry</i> , 2007, 282, 5959-5967.	3.4	23
26	Amorphous Aggregation of Cytochrome <i>c</i> with Inherently Low Amyloidogenicity Is Characterized by the Metastability of Supersaturation and the Phase Diagram. <i>Langmuir</i> , 2016, 32, 2010-2022.	3.5	22
27	Ultrasonication-dependent formation and degradation of $\hat{I}$ -synuclein amyloid fibrils. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 209-217.	2.3	21
28	Small molecule induced toxic human-IAPP species characterized by NMR. <i>Chemical Communications</i> , 2020, 56, 13129-13132.	4.1	21
29	Direct observation of minimum-sized amyloid fibrils using solution NMR spectroscopy. <i>Protein Science</i> , 2010, 19, 2347-2355.	7.6	19
30	The novel DYRK1A inhibitor KVN93 regulates cognitive function, amyloid-beta pathology, and neuroinflammation. <i>Free Radical Biology and Medicine</i> , 2020, 160, 575-595.	2.9	19
31	Graphene Quantum Dots Alleviate Impaired Functions in Niemann-Pick Disease Type C in Vivo. <i>Nano Letters</i> , 2021, 21, 2339-2346.	9.1	17
32	Fine-tuned broad binding capability of human lipocalin-type prostaglandin D synthase for various small lipophilic ligands. <i>FEBS Letters</i> , 2014, 588, 962-969.	2.8	16
33	Development of a Polo-like Kinase-1 Polo-Box Domain Inhibitor as a Tumor Growth Suppressor in Mice Models. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 14905-14920.	6.4	16
34	Physicochemical nature of interfaces controlling ferredoxin NADP <sup>+</sup> reductase activity through its interprotein interactions with ferredoxin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1200-1211.	1.0	15
35	Seamen-derived amyloidogenic peptides"Key players of HIV infection. <i>Protein Science</i> , 2018, 27, 1151-1165.	7.6	15
36	Energy landscape of polymorphic amyloid generation of $\hat{I}^2$ -microglobulin revealed by calorimetry. <i>Chemical Communications</i> , 2018, 54, 7995-7998.	4.1	14

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37	Key Physicochemical and Biological Factors of the Phase Behavior of Tau. <i>CheM</i> , 2020, 6, 2924-2963.	11.7	13
38	Non-covalent forces tune the electron transfer complex between ferredoxin and sulfite reductase to optimize enzymatic activity. <i>Biochemical Journal</i> , 2016, 473, 3837-3854.	3.7	12
39	Mechanistic and structural basis of bioengineered bovine Cathelicidin-5 with optimized therapeutic activity. <i>Scientific Reports</i> , 2017, 7, 44781.	3.3	10
40	Impact of sphingosine and acetylsphingosines on the aggregation and toxicity of metal-free and metal-treated amyloid- $\beta$ . <i>Chemical Science</i> , 2021, 12, 2456-2466.	7.4	9
41	NMR Characterization of the Interaction of the Endonuclease Domain of MutL with Divalent Metal Ions and ATP. <i>PLoS ONE</i> , 2014, 9, e98554.	2.5	7
42	Structural basis of the correct subunit assembly, aggregation, and intracellular degradation of nylon hydrolase. <i>Scientific Reports</i> , 2018, 8, 9725.	3.3	7
43	Crystal structure of higher plant heme oxygenase-1 and its mechanism of interaction with ferredoxin. <i>Journal of Biological Chemistry</i> , 2021, 296, 100217.	3.4	7
44	17O NMR Spectroscopy: A Novel Probe for Characterizing Protein Structure and Folding. <i>Biology</i> , 2021, 10, 453.	2.8	6
45	Ca <sup>2+</sup> Regulates ERp57-Calnexin Complex Formation. <i>Molecules</i> , 2021, 26, 2853.	3.8	6
46	Energetic basis on interactions between ferredoxin and ferredoxin NADP + reductase at varying physiological conditions. <i>Biochemical and Biophysical Research Communications</i> , 2017, 482, 909-915.	2.1	5
47	A hybrid strategy combining solution NMR spectroscopy and isothermal titration calorimetry to characterize protein-nanodisc interaction. <i>Analytical Biochemistry</i> , 2022, 639, 114521.	2.4	5
48	Bean Extract-Based Gargle for Efficient Diagnosis of Active COVID-19 Infection Using Rapid Antigen Tests. <i>Microbiology Spectrum</i> , 2022, 10, e0161421.	3.0	4
49	Kinetics and polymorphs of yeast prion Sup35NM amyloidogenesis. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 1241-1249.	7.5	3
50	Aggregation-Prone Structural Ensembles of Transthyretin Collected With Regression Analysis for NMR Chemical Shift. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 766830.	3.5	2
51	Functional Interplay between P5 and PDI/ERp72 to Drive Protein Folding. <i>Biology</i> , 2021, 10, 1112.	2.8	2
52	Molecular Effects of Elongation Factor Ts and Trigger Factor on the Unfolding and Aggregation of Elongation Factor Tu Induced by the Prokaryotic Molecular Chaperone Hsp33. <i>Biology</i> , 2021, 10, 1171.	2.8	2
53	Dual Effects of Presynaptic Membrane Mimetics on $\beta$ -Synuclein Amyloid Aggregation. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	3.7	2
54	Biochemical and Biophysical Methods to Examine the Effects of Site-Directed Mutagenesis on Enzymatic Activities and Interprotein Interactions. <i>Methods in Molecular Biology</i> , 2017, 1498, 439-460.	0.9	0