Jennifer C Lee

List of Publications by Year
in descending order

86 papers	3,826 citations	126901 33 h-index	138468 58 g-index
88 all docs	88 docs citations	88 times ranked	4420 citing authors

#	Article	IF	Citations
1	Copper(II) Binding to Î±-Synuclein, the Parkinsonâ€™s Protein. Journal of the American Chemical Society, 2008, 130, 6898-6899.	13.7	220
2	Cysteine cathepsins are essential in lysosomal degradation of Î±-synuclein. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9322-9327.	7.1	170
3	Biophysics of Î±-synuclein membrane interactions. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 162-171.	2.6	168
4	Î±-Synuclein Interacts with Glucocerebrosidase Providing a Molecular Link between Parkinson and Gaucher Diseases. Journal of Biological Chemistry, 2011, 286, 28080-28088.	3.4	160
5	Î±-Synuclein Shows High Affinity Interaction with Voltage-dependent Anion Channel, Suggesting Mechanisms of Mitochondrial Regulation and Toxicity in Parkinson Disease. Journal of Biological Chemistry, 2015, 290, 18467-18477.	3.4	157
6	Â-Synuclein structures from fluorescence energy-transfer kinetics: Implications for the role of the protein in Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16466-16471.	7.1	146
7	Î±-Synuclein: Stable compact and extended monomeric structures and pH dependence of dimer formation. Journal of the American Society for Mass Spectrometry, 2004, 15, 1435-1443.	2.8	140
8	Cytochrome b562 folding triggered by electron transfer: Approaching the speed limit for formation of a four-helix-bundle protein. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 6587-6590.	7.1	117
9	Membrane Remodeling by Î±-Synuclein and Effects on Amyloid Formation. Journal of the American Chemical Society, 2013, 135, 15970-15973.	13.7	103
10	Lipid-Chaperone Hypothesis: A Common Molecular Mechanism of Membrane Disruption by Intrinsically Disordered Proteins. ACS Chemical Neuroscience, 2020, 11, 4336-4350.	3.5	101
11	Effects of pH on aggregation kinetics of the repeat domain of a functional amyloid, Pmel17. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21447-21452.	7.1	96
12	Depth of Î±-Synuclein in a Bilayer Determined by Fluorescence, Neutron Reflectometry, and Computation. Biophysical Journal, 2012, 102, 613-621.	0.5	94
13	Membrane-bound Î±-synuclein interacts with glucocerebrosidase and inhibits enzyme activity. Molecular Genetics and Metabolism, 2013, 108, 56-64.	1.1	94
14	Structural Insights into Î±-Synuclein Fibril Polymorphism: Effects of Parkinson's Disease-Related C-Terminal Truncations. Journal of Molecular Biology, 2019, 431, 3913-3919.	4.2	92
15	Structural features of Î±-synuclein amyloid fibrils revealed by Raman spectroscopy. Journal of Biological Chemistry, 2018, 293, 767-776.	3.4	82
16	The protein-folding speed limit: Intrachain diffusion times set by electron-transfer rates in denatured Ru(NH3)5(His-33)-Zn-cytochrome c. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3838-3840.	7.1	78
17	Tryptophan Probes at the Î±-Synuclein and Membrane Interface. Journal of Physical Chemistry B, 2010, 114, 4615-4622.	2.6	76
18	Tertiary Contact Formation in Î±-Synuclein Probed by Electron Transfer. Journal of the American Chemical Society, 2005, 127, 16388-16389.	13.7	66

#	Article	IF	Citations
19	Effects of phosphatidylcholine membrane fluidity on the conformation and aggregation of N-terminally acetylated Î±-synuclein. Journal of Biological Chemistry, 2018, 293, 11195-11205.	3.4	64
20	Î±-Synuclein Tertiary Contact Dynamics. Journal of Physical Chemistry B, 2007, 111, 2107-2112.	2.6	59
21	Spermine Binding to Parkinsonâ€™s Protein Î±-Synuclein and Its Disease-Related A30P and A53T Mutants. Journal of Physical Chemistry B, 2008, 112, 11147-11154.	2.6	52
22	Identification of the Minimal Copper(II)-Binding Î±-Synuclein Sequence. Inorganic Chemistry, 2009, 48, 9303-9307.	4.0	49
23	Fate plasticity and reprogramming in genetically distinct populations of <i>Danio</i> leucophores. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11806-11811.	7.1	49
24	Interplay between Î±-synuclein amyloid formation and membrane structure. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 483-491.	2.3	49
25	C-terminal Î±-synuclein truncations are linked to cysteine cathepsin activity in Parkinsonâ€™s disease. Journal of Biological Chemistry, 2019, 294, 9973-9984.	3.4	48
26	Molecular Details of Î±-Synuclein Membrane Association Revealed by Neutrons and Photons. Journal of Physical Chemistry B, 2015, 119, 4812-4823.	2.6	46
27	Structural features of cytochrome c' folding intermediates revealed by fluorescence energy-transfer kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14778-14782.	7.1	44
28	Structural Features of Membrane-bound Glucocerebrosidase and Î±-Synuclein Probed by Neutron Reflectometry and Fluorescence Spectroscopy. Journal of Biological Chemistry, 2015, 290, 744-754.	3.4	44
29	Evidence for Copper-dioxygen Reactivity during Î±-Synuclein Fibril Formation. Journal of the American Chemical Society, 2010, 132, 6636-6637.	13.7	43
30	Raman fingerprints of amyloid structures. Chemical Communications, 2018, 54, 6983-6986.	4.1	41
31	Cytochrome c' folding triggered by electron transfer: Fast and slow formation of four-helix bundles. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7760-7764.	7.1	40
32	Saposin C Protects Glucocerebrosidase against Î±-Synuclein Inhibition. Biochemistry, 2013, 52, 7161-7163.	2.5	39
33	The N terminus of Î±-synuclein dictates fibril formation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	39
34	Unroofing site-specific Î±-synucleinâ€“lipid interactions at the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18977-18983.	7.1	37
35	N-Terminal Acetylation Affects Î±-Synuclein Fibril Polymorphism. Biochemistry, 2019, 58, 3630-3633.	2.5	35
36	In situ differentiation of iridophore crystallotypes underlies zebrafish stripe patterning. Nature Communications, 2020, 11, 6391.	12.8	35

#	Article	IF	Citations
37	Molecular Origin of pHâ€Dependent Fibril Formation of a Functional Amyloid. ChemBioChem, 2014, 15, 1569-1572.	2.6	34
38	Î±-Synuclein Structures Probed by 5-Fluorotryptophan Fluorescence and19F NMR Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 7058-7061.	2.6	33
39	pH-Dependent fibril maturation of a Pmel17 repeat domain isoform revealed by tryptophan fluorescence. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 961-969.	2.3	32
40	Residue-Specific Fluorescent Probes of Î±-Synuclein: Detection of Early Events at the N- and C-Termini during Fibril Assembly. Biochemistry, 2011, 50, 1963-1965.	2.5	31
41	Mechanism of Assembly of the Non-Covalent Spectrin Tetramerization Domain from Intrinsically Disordered Partners. Journal of Molecular Biology, 2014, 426, 21-35.	4.2	31
42	Site-specific collapse dynamics guide the formation of the cytochrome c' four-helix bundle. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 117-122.	7.1	30
43	Alpha-Synuclein Lipid-Dependent Membrane Binding and Translocation through the Î±-Hemolysin Channel. Biophysical Journal, 2014, 106, 556-565.	0.5	30
44	Why Study Functional Amyloids? Lessons from the Repeat Domain of Pmel17. Journal of Molecular Biology, 2018, 430, 3696-3706.	4.2	30
45	Copper(ii) enhances membrane-bound Î±-synuclein helix formation. Metallomics, 2011, 3, 280.	2.4	29
46	The Cytochrome c Folding Landscape Revealed by Electron-transfer Kinetics. Journal of Molecular Biology, 2002, 320, 159-164.	4.2	28
47	Taking a Bite Out of Amyloid: Mechanistic Insights into Î±-Synuclein Degradation by Cathepsin L. Biochemistry, 2017, 56, 3881-3884.	2.5	26
48	Equilibrium unfolding of the poly(glutamic acid)20 helix. Biopolymers, 2007, 86, 193-211.	2.4	25
49	Probing Fibril Dissolution of the Repeat Domain of a Functional Amyloid, Pmel17, on the Microscopic and Residue Level. Biochemistry, 2011, 50, 10567-10569.	2.5	24
50	NMR Structure of Calmodulin Complexed to an N-Terminally Acetylated Î±-Synuclein Peptide. Biochemistry, 2013, 52, 3436-3445.	2.5	24
51	Segmental Deuteration of Î±-Synuclein for Neutron Reflectometry on Tethered Bilayers. Journal of Physical Chemistry Letters, 2017, 8, 29-34.	4.6	24
52	Probing Membrane Association of Î±-Synuclein Domains with VDAC Nanopore Reveals Unexpected Binding Pattern. Scientific Reports, 2019, 9, 4580.	3.3	24
53	Linking Parkinson's Disease and Melanoma: Interplay Between Î±â€Synuclein and Pmel17 Amyloid Formation. Movement Disorders, 2021, 36, 1489-1498.	3.9	24
54	Stimulation of Î±-synuclein amyloid formation by phosphatidylglycerol micellar tubules. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1840-1847.	2.6	23

#	Article	IF	Citations
55	Effect of dioxygen on copper(II) binding to Î±-synuclein. Journal of Inorganic Biochemistry, 2010, 104, 245-249.	3.5	21
56	Lysophospholipid-Containing Membranes Modulate the Fibril Formation of the Repeat Domain of a Human Functional Amyloid, Pmel17. Journal of Molecular Biology, 2014, 426, 4074-4086.	4.2	21
57	The yin and yang of amyloid: insights from Î±-synuclein and repeat domain of Pmel17. Physical Chemistry Chemical Physics, 2011, 13, 20066.	2.8	20
58	Segmental ¹³Câ€Labeling and Raman Microspectroscopy of Î±â€Synuclein Amyloid Formation. Angewandte Chemie - International Edition, 2018, 57, 17069-17072.	13.8	20
59	Dissociation of glucocerebrosidase dimer in solution by its co-factor, saposin C. Biochemical and Biophysical Research Communications, 2015, 457, 561-566.	2.1	19
60	Cloning, heterologous expression, and characterization of recombinant class II cytochromes c from Rhodopseudomonas palustris. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 23-28.	2.4	17
61	Folding energy landscape of cytochrome <i>cb</i> ₅₆₂. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7834-7839.	7.1	17
62	Reversing the Amyloid Trend: Mechanism of Fibril Assembly and Dissolution of the Repeat Domain from a Human Functional Amyloid. Israel Journal of Chemistry, 2017, 57, 613-621.	2.3	17
63	Lysophospholipids induce fibrillation of the repeat domain of Pmel17 through intermediate core-shell structures. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 519-528.	2.3	17
64	Amyloid Triangles, Squares, and Loops of Apolipoprotein C-III. Biochemistry, 2014, 53, 3261-3263.	2.5	16
65	Deuteration of Escherichia coli Enzyme INtr alters its stability. Archives of Biochemistry and Biophysics, 2011, 507, 332-342.	3.0	15
66	Emerging insights into the mechanistic link between Î±-synuclein and glucocerebrosidase in Parkinson's disease. Biochemical Society Transactions, 2013, 41, 1509-1512.	3.4	14
67	Membrane Interactions of Î±-Synuclein Probed by Neutrons and Photons. Accounts of Chemical Research, 2021, 54, 302-310.	15.6	14
68	Modulating functional amyloid formation via alternative splicing of the premelanosomal protein PMEL17. Journal of Biological Chemistry, 2020, 295, 7544-7553.	3.4	13
69	Cathepsin K is a potent disaggregase of Î±-synuclein fibrils. Biochemical and Biophysical Research Communications, 2020, 529, 1106-1111.	2.1	11
70	Watching liquid droplets of TDP-43CTD age by Raman spectroscopy. Journal of Biological Chemistry, 2022, 298, 101528.	3.4	11
71	Defining an amyloid link Between Parkinsonâ€™s disease and melanoma. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22671-22673.	7.1	10
72	Terminal Alkynes as Raman Probes of Î±â€Synuclein in Solution and in Cells. ChemBioChem, 2020, 21, 1582-1586.	2.6	10

#	Article	IF	Citations
73	Raman spectral imaging of 13C2H15N-labeled Î±-synuclein amyloid fibrils in cells. Biophysical Chemistry, 2021, 269, 106528.	2.8	10
74	5-Fluoro-d,l-Tryptophan as a Dual NMR and Fluorescent Probe of Î±-Synuclein. Methods in Molecular Biology, 2012, 895, 197-209.	0.9	8
75	Coupling chemical biology and vibrational spectroscopy for studies of amyloids inÂvitro and in cells. Current Opinion in Chemical Biology, 2021, 64, 90-97.	6.1	7
76	Synchronous vs Asynchronous Chain Motion in Î±-Synuclein Contact Dynamics. Journal of Physical Chemistry B, 2009, 113, 522-530.	2.6	6
77	Tryptophan Probes of TDP-43 C-Terminal Domain Amyloid Formation. Journal of Physical Chemistry B, 2021, 125, 3781-3789.	2.6	6
78	Genetically Encoded Aryl Alkyne for Raman Spectral Imaging of Intracellular Î±-Synuclein Fibrils. Journal of Molecular Biology, 2023, 435, 167716.	4.2	6
79	Single-Particle Tracking of Human Lipoproteins. Analytical Chemistry, 2016, 88, 596-599.	6.5	5
80	Tryptophan probes reveal residue-specific phospholipid interactions of apolipoprotein C-III. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2821-2828.	2.6	4
81	Purification and characterization of an amyloidogenic repeat domain from the functional amyloid Pmel17. Protein Expression and Purification, 2021, 187, 105944.	1.3	4
82	Protein Folding, Misfolding, and Disease. , 2006, , 9-60.		3
83	Energy Transfer Ligands of the GluR2 Ligand Binding Core. Biochemistry, 2010, 49, 2051-2057.	2.5	3
84	Apolipoprotein C-III Nanodiscs Studied by Site-Specific Tryptophan Fluorescence. Biochemistry, 2016, 55, 4939-4948.	2.5	3
85	Segmental ¹³Câ€Labeling and Raman Microspectroscopy of Î±â€Synuclein Amyloid Formation. Angewandte Chemie, 2018, 130, 17315-17318.	2.0	2
86	Physical Chemistry in Biomedical Research: From Cuvettes toward Cellular Insights. Journal of Physical Chemistry Letters, 2017, 8, 1943-1945.	4.6	0