Wayne A Fenton

List of Publications by Year
in descending order

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28 papers	5,411 citations	279798 23 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	2602 citing authors

#	Article	IF	Citations
1	Residues in chaperonin GroEL required for polypeptide binding and release. Nature, 1994, 371, 614-619.	27.8	653
2	STRUCTURE AND FUNCTION IN GroEL-MEDIATED PROTEIN FOLDING. Annual Review of Biochemistry, 1998, 67, 581-608.	11.1	547
3	Mechanism of GroEL action: Productive release of polypeptide from a sequestered position under groes. Cell, 1995, 83, 577-587.	28.9	431
4	Characterization of the Active Intermediate of a GroELâ€“GroES-Mediated Protein Folding Reaction. Cell, 1996, 84, 481-490.	28.9	395
5	Distinct actions of cis and trans ATP within the double ring of the chaperonin GroEL. Nature, 1997, 388, 792-798.	27.8	392
6	Two Families of Chaperonin: Physiology and Mechanism. Annual Review of Cell and Developmental Biology, 2007, 23, 115-145.	9.4	384
7	GroEL-mediated protein folding proceeds by multiple rounds of binding and release of nonnative forms. Cell, 1994, 78, 693-702.	28.9	375
8	Folding in vivo of bacterial cytoplasmic proteins: Role of GroEL. Cell, 1993, 74, 909-917.	28.9	355
9	GroELâ€Mediated protein folding. Protein Science, 1997, 6, 743-760.	7.6	318
10	GroEL-GroES Cycling. Cell, 1999, 97, 325-338.	28.9	308
11	ATP-Bound States of GroEL Captured by Cryo-Electron Microscopy. Cell, 2001, 107, 869-879.	28.9	274
12	GroEL/GroES-Mediated Folding of a Protein Too Large to Be Encapsulated. Cell, 2001, 107, 235-246.	28.9	169
13	Chaperonin-mediated protein folding: using a central cavity to kinetically assist polypeptide chain folding. Quarterly Reviews of Biophysics, 2009, 42, 83-116.	5.7	137
14	Gene deletion and restriction fragment length polymorphisms at the human ornithine transcarbamylase locus. Nature, 1985, 313, 815-817.	27.8	129
15	Release of both native and non-native proteins from a cis-only GroEL ternary complex. Nature, 1996, 383, 96-99.	27.8	90
16	Substrate polypeptide presents a load on the apical domains of the chaperonin GroEL. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15005-15012.	7.1	74
17	Folding with and without encapsulation by cis- and trans-only GroEL-GroES complexes. EMBO Journal, 2003, 22, 3220-3230.	7.8	70
18	Extended survival of misfolded G85R SOD1-linked ALS mice by transgenic expression of chaperone Hsp110. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5424-5428.	7.1	55

#	Article	IF	Citations
19	Folding trajectories of human dihydrofolate reductase inside the GroEL-GroES chaperonin cavity and free in solution. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20788-20792.	7.1	48
20	Expression and kinetic characterization of methylmalonyl-CoA mutase from patients with the mut- phenotype: evidence for naturally occurring interallelic complementation. Human Molecular Genetics, 1997, 6, 1457-1464.	2.9	44
21	Perturbed ATPase activity and not "close confinement" of substrate in the cis cavity affects rates of folding by tail-multiplied GroEL. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5342-5347.	7.1	44
22	Chaperonin-assisted protein folding: a chronologue. Quarterly Reviews of Biophysics, 2020, 53, e4.	5.7	36
23	Requirement for binding multiple ATPs to convert a GroEL ring to the folding-active state. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19205-19210.	7.1	28
24	No evidence for a forced-unfolding mechanism during ATP/GroES binding to substrate-bound GroEL: no observable protection of metastable Rubisco intermediate or GroEL-bound Rubisco from tritium exchange. FEBS Letters, 2005, 579, 1183-1186.	2.8	20
25	Transfer of pathogenic and nonpathogenic cytosolic proteins between spinal cord motor neurons in vivo in chimeric mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3139-E3148.	7.1	18
26	Disulfide formation as a probe of folding in GroEL-GroES reveals correct formation of long-range bonds and editing of incorrect short-range ones. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2145-2150.	7.1	11
27	Unfolded DapA forms aggregates when diluted into free solution, confounding comparison with folding by the GroEL/GroES chaperonin system. FEBS Letters, 2015, 589, 497-499.	2.8	6
28	Transfer of nuclear proteins to mitochondria â€" a role in mitochondrial disease. BioFactors, 1998, 7, 197-199.	5.4	0