Frank Shewmaker

List of Publications by Year
in descending order

30 papers	2,795 citations	331670 21 h-index	501196 28 g-index
31 all docs	31 docs citations	31 times ranked	3245 citing authors

#	Article	IF	Citations
1	Nâ€terminal acetylation modestly enhances phase separation and reduces aggregation of the lowâ€complexity domain of RNAâ€binding protein fused in sarcoma. Protein Science, 2021, 30, 1337-1349.	7.6	27
2	DDX17 is involved in DNA damage repair and modifies FUS toxicity in an RGG-domain dependent manner. Acta Neuropathologica, 2021, 142, 515-536.	7.7	20
3	The oncogenic transcription factor FUS-CHOP can undergo nuclear liquidâ€“liquid phase separation. Journal of Cell Science, 2021, 134, .	2.0	28
4	25 years of yeast prions. Prion, 2020, 14, 29-30.	1.8	0
5	The prion-like domain of Fused in Sarcoma is phosphorylated by multiple kinases affecting liquid- and solid-phase transitions. Molecular Biology of the Cell, 2020, 31, 2522-2536.	2.1	16
6	The Role of Post-Translational Modifications in the Phase Transitions of Intrinsically Disordered Proteins. International Journal of Molecular Sciences, 2019, 20, 5501.	4.1	155
7	A single Nâ€terminal phosphomimic disrupts TDPâ€43 polymerization, phase separation, and RNA splicing. EMBO Journal, 2018, 37, .	7.8	297
8	The Role of Post-Translational Modifications on Prion-Like Aggregation and Liquid-Phase Separation of FUS. International Journal of Molecular Sciences, 2018, 19, 886.	4.1	92
9	Study of Amyloids Using Yeast. Methods in Molecular Biology, 2018, 1779, 313-339.	0.9	6
10	Phosphorylation of the <scp>FUS</scp> lowâ€complexity domain disrupts phase separation, aggregation, and toxicity. EMBO Journal, 2017, 36, 2951-2967.	7.8	544
11	Stress granules at the intersection of autophagy and ALS. Brain Research, 2016, 1649, 189-200.	2.2	93
12	Pur-alpha regulates cytoplasmic stress granule dynamics and ameliorates FUS toxicity. Acta Neuropathologica, 2016, 131, 605-620.	7.7	56
13	Non-targeted Identification of Prions and Amyloid-forming Proteins from Yeast and Mammalian Cells. Journal of Biological Chemistry, 2013, 288, 27100-27111.	3.4	55
14	Amyloid cannot resist identification. Prion, 2013, 7, 464-468.	1.8	5
15	RNA-binding ability of FUS regulates neurodegeneration, cytoplasmic mislocalization and incorporation into stress granules associated with FUS carrying ALS-linked mutations. Human Molecular Genetics, 2013, 22, 1193-1205.	2.9	187
16	A yeast model of optineurin proteinopathy reveals a unique aggregation pattern associated with cellular toxicity. Molecular Microbiology, 2012, 86, 1531-1547.	2.5	59
17	Molecular Analysis of Genetic Variation in Prions of Saccharomyces cerevisiae. FASEB Journal, 2012, 26, 398.11.	0.5	0
18	Structural Insights into Functional and Pathological Amyloid. Journal of Biological Chemistry, 2011, 286, 16533-16540.	3.4	146

#	Article	IF	Citations
19	FUS/TLS forms cytoplasmic aggregates, inhibits cell growth and interacts with TDP-43 in a yeast model of amyotrophic lateral sclerosis. Protein and Cell, 2011, 2, 223-236.	11.0	79
20	Modeling ALS and FTLD proteinopathies in yeast: An efficient approach for studying protein aggregation and toxicity. Prion, 2011, 5, 250-257.	1.8	24
21	The Application of NMR Techniques to Bacterial Adhesins. Advances in Experimental Medicine and Biology, 2011, 715, 241-256.	1.6	1
22	Quantitative Characterization of Heparin Binding to Tau Protein. Journal of Biological Chemistry, 2010, 285, 3592-3599.	3.4	96
23	The Functional Curli Amyloid Is Not Based on In-register Parallel Î²-Sheet Structure. Journal of Biological Chemistry, 2009, 284, 25065-25076.	3.4	119
24	Two Prion Variants of Sup35p Have In-Register Parallel Î²-Sheet Structures, Independent of Hydration. Biochemistry, 2009, 48, 5074-5082.	2.5	89
25	Protein inheritance (prions) based on parallel inâ€register Î²â€sheet amyloid structures. BioEssays, 2008, 30, 955-964.	2.5	82
26	Curing of the [URE3] prion by Btn2p, a Batten disease-related protein. EMBO Journal, 2008, 27, 2725-2735.	7.8	94
27	Amyloids of Shuffled Prion Domains That Form Prions Have a Parallel In-Register Î²-Sheet Structureâ€. Biochemistry, 2008, 47, 4000-4007.	2.5	63
28	Ure2p Function Is Enhanced by Its Prion Domain in Saccharomyces cerevisiae. Genetics, 2007, 176, 1557-1565.	2.9	72
29	Amyloid of the prion domain of Sup35p has an in-register parallel beta-sheet structure. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19754-19759.	7.1	280
30	Ageing in yeast does not enhance prion generation. Yeast, 2006, 23, 1123-1128.	1.7	7