Jean-FranÃ§ois Trempe

List of Publications by Year
in descending order

42 papers	4,588 citations	331670 21 h-index	276875 41 g-index
56 all docs	56 docs citations	56 times ranked	8732 citing authors

#	Article	IF	Citations
1	The inner junction complex of the cilia is an interaction hub that involves tubulin post-translational modifications. ELife, 2020, 9, .	6.0	1,191
2	Ubiquitin is phosphorylated by PINK1 to activate parkin. Nature, 2014, 510, 162-166.	27.8	1,185
3	Structure of Parkin Reveals Mechanisms for Ubiquitin Ligase Activation. Science, 2013, 340, 1451-1455.	12.6	440
4	Mfn2 ubiquitination by PINK1/parkin gates the p97-dependent release of ER from mitochondria to drive mitophagy. ELife, 2018, 7, .	6.0	261
5	A Ubl/ubiquitin switch in the activation of Parkin. EMBO Journal, 2015, 34, 2492-2505.	7.8	164
6	Mechanism of parkin activation by phosphorylation. Nature Structural and Molecular Biology, 2018, 25, 623-630.	8.2	128
7	SH3 Domains from a Subset of BAR Proteins Define a Ubl-Binding Domain and Implicate Parkin in Synaptic Ubiquitination. Molecular Cell, 2009, 36, 1034-1047.	9.7	121
8	Structure and Function of Parkin, PINK1, and DJ-1, the Three Musketeers of Neuroprotection. Frontiers in Neurology, 2013, 4, 38.	2.4	110
9	<scp>PINK</scp> 1 autophosphorylation is required for ubiquitin recognition. EMBO Reports, 2018, 19, .	4.5	88
10	<i>SMPD1</i> mutations, activity, and Î±â€synuclein accumulation in Parkinson's disease. Movement Disorders, 2019, 34, 526-535.	3.9	81
11	Reading the ubiquitin postal code. Current Opinion in Structural Biology, 2011, 21, 792-801.	5.7	79
12	Structure-guided mutagenesis reveals a hierarchical mechanism of Parkin activation. Nature Communications, 2017, 8, 14697.	12.8	74
13	Mechanisms of PINK1, ubiquitin and Parkin interactions in mitochondrial quality control and beyond. Cellular and Molecular Life Sciences, 2019, 76, 4589-4611.	5.4	73
14	Genetic, Structural, and Functional Evidence Link <i>TMEM175</i> to Synucleinopathies. Annals of Neurology, 2020, 87, 139-153.	5.3	65
15	The landscape of Parkin variants reveals pathogenic mechanisms and therapeutic targets in Parkinsonâ€™s disease. Human Molecular Genetics, 2019, 28, 2811-2825.	2.9	61
16	Pleiotropic effects for Parkin and LRRK2 in leprosy type-1 reactions and Parkinsonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15616-15624.	7.1	50
17	Human DNA-Damage-Inducible 2 Protein Is Structurally and Functionally Distinct from Its Yeast Ortholog. Scientific Reports, 2016, 6, 30443.	3.3	46
18	Structural studies of the yeast DNA damage-inducible protein Ddi1 reveal domain architecture of this eukaryotic protein family. Scientific Reports, 2016, 6, 33671.	3.3	44

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19	Mechanism of PINK1 activation by autophosphorylation and insights into assembly on the TOM complex. Molecular Cell, 2022, 82, 44-59.e6.	9.7	42
20	The E3 Ubiquitin Ligase Parkin Is Recruited to the 26 S Proteasome via the Proteasomal Ubiquitin Receptor Rpn13. Journal of Biological Chemistry, 2015, 290, 7492-7505.	3.4	32
21	The yeast proteases Ddi1 and Wss1 are both involved in the DNA replication stress response. DNA Repair, 2019, 80, 45-51.	2.8	31
22	Characterization of polyacrylamide-stabilized Pf1 phage liquid crystals for protein NMR spectroscopy. Journal of Biomolecular NMR, 2002, 22, 83-87.	2.8	21
23	Clinical and genetic analysis of <i>ATP13A2</i> in hereditary spastic paraplegia expands the phenotype. Molecular Genetics & Genomic Medicine, 2020, 8, e1052.	1.2	20
24	New insights into the structure of PINK1 and the mechanism of ubiquitin phosphorylation. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 515-534.	5.2	19
25	Crystal structure of human PACRG in complex with MEIG1 reveals roles in axoneme formation and tubulin binding. Structure, 2021, 29, 572-586.e6.	3.3	19
26	TNF receptorâ€“associated factor 6 interacts with ALS-linked misfolded superoxide dismutase 1 and promotes aggregation. Journal of Biological Chemistry, 2020, 295, 3808-3825.	3.4	16
27	Proteomic Profiling of Mitochondrial-Derived Vesicles in Brain Reveals Enrichment of Respiratory Complex Sub-assemblies and Small TIM Chaperones. Journal of Proteome Research, 2021, 20, 506-517.	3.7	14
28	Structures of ubiquitin-like (Ubl) and Hsp90-like domains of sacsin provide insight into pathological mutations. Journal of Biological Chemistry, 2018, 293, 12832-12842.	3.4	13
29	Novel Associations of <i>BST1</i> and <i>LAMP3</i> With REM Sleep Behavior Disorder. Neurology, 2021, 96, e1402-e1412.	1.1	12
30	Evidence for Nonâ€Mendelian Inheritance in Spastic Paraplegia 7. Movement Disorders, 2021, 36, 1664-1675.	3.9	11
31	Selective localization of Mfn2 near PINK1 enables its preferential ubiquitination by Parkin on mitochondria. Open Biology, 2022, 12, 210255.	3.6	10
32	The role of the individual TOM subunits in the association of PINK1 with depolarized mitochondria. Journal of Molecular Medicine, 2022, 100, 747-762.	3.9	10
33	Genetic, structural and clinical analysis of spastic paraplegia 4. Parkinsonism and Related Disorders, 2022, 98, 62-69.	2.2	7
34	Fine-Tuning TOM-Mitochondrial Import via Ubiquitin. Trends in Cell Biology, 2020, 30, 425-427.	7.9	6
35	Recoupling of residual dipolar couplings in single-domain polymer-stabilized liquid crystals undergoing magic-angle spinning. Journal of Magnetic Resonance, 2003, 164, 329-337.	2.1	5
36	<scp><i>GCH1</i></scp> mutations in hereditary spastic paraplegia. Clinical Genetics, 2021, 100, 51-58.	2.0	5

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37	An approach to measuring protein turnover in human induced pluripotent stem cell organoids by mass spectrometry. Methods, 2022, 203, 17-27.	3.8	5
38	Clinical and Genetic Analysis of Costa Rican Patients With Parkinson's Disease. Frontiers in Neurology, 2021, 12, 656342.	2.4	4
39	Selfâ€association studies of the bifunctional <i>N</i>â€acetylglucosamineâ€1â€phosphate uridyltransferase from <i>Escherichia coli</i>. Protein Science, 2011, 20, 745-752.	7.6	3
40	Rare PSAP Variants and Possible Interaction with GBA in REM Sleep Behavior Disorder. Journal of Parkinson's Disease, 2022, 12, 333-340.	2.8	3
41	Small-Angle X-Ray Scattering for the Study of Proteins in the Ubiquitin Pathway. Methods in Molecular Biology, 2018, 1844, 197-208.	0.9	0
42	Structure of the Cyanobacterial NAD(P)H Dehydrogenase-Like Complex of Oxygenic Photosynthesis. Microscopy and Microanalysis, 2019, 25, 1326-1327.	0.4	0