

Jean-Christophe Rochet

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

9,324
citations

35
h-index

85
g-index

85
ext. papers

10,263
ext. citations

7.2
avg, IF

5.63
L-index

#	Paper	IF	Citations
80	Shining a light on autophagy in neurodegenerative diseases. <i>Journal of Biological Chemistry</i> , 2021 , 101437-4	37.4	0
79	Hyperexcitability and Pharmacological Responsiveness of Cortical Neurons Derived from Human iPSCs Carrying Epilepsy-Associated Sodium Channel Nav1.2-L1342P Genetic Variant. <i>Journal of Neuroscience</i> , 2021 , 41, 10194-10208	6.6	3
78	Neuroprotective mechanisms of red clover and soy isoflavones in Parkinson's disease models. <i>Food and Function</i> , 2021 , 12, 11987-12007	6.1	0
77	Monitoring phagocytic uptake of amyloid β into glial cell lysosomes in real time. <i>Chemical Science</i> , 2021 , 12, 10901-10918	9.4	3
76	Localization of Fluorescent Targets in Deep Tissue With Expanded Beam Illumination for Studies of Cancer and the Brain. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2472-2481	11.7	1
75	Calcein Release Assay to Measure Membrane Permeabilization by Recombinant Alpha-Synuclein. <i>Bio-protocol</i> , 2020 , 10,	0.9	6
74	AMPylation/Adenylation of Alpha-synuclein by HYPE/FICD. <i>Bio-protocol</i> , 2020 , 10, e3760	0.9	0
73	DJ-1 can form β -sheet structured aggregates that co-localize with pathological amyloid deposits. <i>Neurobiology of Disease</i> , 2020 , 134, 104629	7.5	10
72	Two C-terminal sequence variations determine differential neurotoxicity between human and mouse β -synuclein. <i>Molecular Neurodegeneration</i> , 2020 , 15, 49	19	3
71	Neuromelanin Modulates Heterocyclic Aromatic Amine-Induced Dopaminergic Neurotoxicity. <i>Toxicological Sciences</i> , 2020 , 173, 171-188	4.4	8
70	Assembly of β -synuclein aggregates on phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 802-812	4	20
69	Tuning a Bisphenol A Lateral Flow Assay Using Multiple Gold Nanosystems. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900133	3.1	3
68	Alpha-Synuclein Is a Target of Fic-Mediated Adenylation/AMPylation: Possible Implications for Parkinson's Disease. <i>Journal of Molecular Biology</i> , 2019 , 431, 2266-2282	6.5	15
67	Novel Small Molecules Targeting the Intrinsically Disordered Structural Ensemble of β -Synuclein Protect Against Diverse β -Synuclein Mediated Dysfunctions. <i>Scientific Reports</i> , 2019 , 9, 16947	4.9	14
66	Acrolein-mediated neuronal cell death and alpha-synuclein aggregation: Implications for Parkinson's disease. <i>Molecular and Cellular Neurosciences</i> , 2018 , 88, 70-82	4.8	20
65	Selective dopaminergic neurotoxicity of three heterocyclic amine subclasses in primary rat midbrain neurons. <i>NeuroToxicology</i> , 2018 , 65, 68-84	4.4	17
64	Pikuni-Blackfeet traditional medicine: Neuroprotective activities of medicinal plants used to treat Parkinson's disease-related symptoms. <i>Journal of Ethnopharmacology</i> , 2017 , 206, 393-407	5	12

63	Lumbee traditional medicine: Neuroprotective activities of medicinal plants used to treat Parkinson's disease-related symptoms. <i>Journal of Ethnopharmacology</i> , 2017 , 206, 408-425	5	17
62	A novel pathway for amyloids self-assembly in aggregates at nanomolar concentration mediated by the interaction with surfaces. <i>Scientific Reports</i> , 2017 , 7, 45592	4.9	34
61	Dietary Phytochemicals in Neurodegenerative Disease 2017 , 361-391		4
60	̢-Adrenoreceptor is a regulator of the ̢synuclein gene driving risk of Parkinson's disease. <i>Science</i> , 2017 , 357, 891-898	33.3	238
59	Nortriptyline inhibits aggregation and neurotoxicity of alpha-synuclein by enhancing reconfiguration of the monomeric form. <i>Neurobiology of Disease</i> , 2017 , 106, 191-204	7.5	22
58	Endosulfine-alpha inhibits membrane-induced ̢synuclein aggregation and protects against ̢synuclein neurotoxicity. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 3	7.3	24
57	Printed optics: phantoms for quantitative deep tissue fluorescence imaging: publisher's note. <i>Optics Letters</i> , 2016 , 41, 5575	3	1
56	Printed optics: phantoms for quantitative deep tissue fluorescence imaging. <i>Optics Letters</i> , 2016 , 41, 5230-5233	3	10
55	Effect of acidic pH on the stability of ̢synuclein dimers. <i>Biopolymers</i> , 2016 , 105, 715-24	2.2	21
54	Cu(II) promotes amyloid pore formation. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 464, 342-7	3.4	7
53	Direct Detection of ̢synuclein Dimerization Dynamics: Single-Molecule Fluorescence Analysis. <i>Biophysical Journal</i> , 2015 , 108, 2038-47	2.9	36
52	Effects of impaired membrane interactions on ̢synuclein aggregation and neurotoxicity. <i>Neurobiology of Disease</i> , 2015 , 79, 150-63	7.5	55
51	Hsp31 Is a Stress Response Chaperone That Intervenes in the Protein Misfolding Process. <i>Journal of Biological Chemistry</i> , 2015 , 290, 24816-34	5.4	23
50	Overexpression of alpha-synuclein at non-toxic levels increases dopaminergic cell death induced by copper exposure via modulation of protein degradation pathways. <i>Neurobiology of Disease</i> , 2015 , 81, 76-92	7.5	47
49	Expression and Transport of ̢synuclein at the Blood-Cerebrospinal Fluid Barrier and Effects of Manganese Exposure. <i>ADMET and DMPK</i> , 2015 , 3, 15-33	1.3	13
48	Neuroprotective effects of anthocyanin- and proanthocyanidin-rich extracts in cellular models of Parkinson's disease. <i>Brain Research</i> , 2014 , 1555, 60-77	3.7	125
47	Nepalese traditional medicine and symptoms related to Parkinson's disease and other disorders: Patterns of the usage of plant resources along the Himalayan altitudinal range. <i>Journal of Ethnopharmacology</i> , 2014 , 153, 178-89	5	18
46	2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) is selectively toxic to primary dopaminergic neurons in vitro. <i>Toxicological Sciences</i> , 2014 , 140, 179-89	4.4	19

45	Targeting the intrinsically disordered structural ensemble of β -synuclein by small molecules as a potential therapeutic strategy for Parkinson's disease. <i>PLoS ONE</i> , 2014 , 9, e87133	3.7	98
44	Role of Aberrant β -Synuclein-Membrane Interactions in Parkinson's Disease 2014 , 443-452		
43	β -Synuclein misfolding assessed with single molecule AFM force spectroscopy: effect of pathogenic mutations. <i>Biochemistry</i> , 2013 , 52, 7377-86	3.2	33
42	Yeast reveal a "druggable" Rsp5/Nedd4 network that ameliorates β -synuclein toxicity in neurons. <i>Science</i> , 2013 , 342, 979-83	33.3	188
41	In vitro study of β -synuclein protofibrils by cryo-EM suggests a Cu(2+)-dependent aggregation pathway. <i>Biophysical Journal</i> , 2013 , 104, 2706-13	2.9	30
40	Reusable photocatalytic titanium dioxide-cellulose nanofiber films. <i>Journal of Colloid and Interface Science</i> , 2013 , 399, 92-8	9.3	62
39	New insights into lysosomal dysfunction in Parkinson's disease: an emerging role for ATP13A2. <i>Movement Disorders</i> , 2012 , 27, 1092	7	3
38	Molecular insights into Parkinson's disease. <i>Progress in Molecular Biology and Translational Science</i> , 2012 , 107, 125-88	4	59
37	Effect of spermidine on misfolding and interactions of alpha-synuclein. <i>PLoS ONE</i> , 2012 , 7, e38099	3.7	43
36	Effect of single amino acid substitution on oxidative modifications of the Parkinson's disease-related protein, DJ-1. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, M111.010892	7.6	18
35	Acid β -glucosidase mutants linked to Gaucher disease, Parkinson disease, and Lewy body dementia alter β -synuclein processing. <i>Annals of Neurology</i> , 2011 , 69, 940-53	9.4	236
34	β -Synuclein-induced tubule formation in lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 5886-93	3.4	35
33	Cyclin-G-associated kinase modifies β -synuclein expression levels and toxicity in Parkinson's disease: results from the GenePD Study. <i>Human Molecular Genetics</i> , 2011 , 20, 1478-87	5.6	47
32	Adsorption of alpha-synuclein on lipid bilayers: modulating the structure and stability of protein assemblies. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4070-81	3.4	36
31	PGC-1 α potential therapeutic target for early intervention in Parkinson's disease. <i>Science Translational Medicine</i> , 2010 , 2, 52ra73	17.5	546
30	Compounds from an unbiased chemical screen reverse both ER-to-Golgi trafficking defects and mitochondrial dysfunction in Parkinson's disease models. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 194-208	4.1	147
29	Alpha-synuclein is part of a diverse and highly conserved interaction network that includes PARK9 and manganese toxicity. <i>Nature Genetics</i> , 2009 , 41, 308-15	36.3	451
28	Path dependence of three-phase or two-phase end points in fluid binary lipid mixtures. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3431-6	3.4	5

27	Clustering of alpha-synuclein on supported lipid bilayers: role of anionic lipid, protein, and divalent ion concentration. <i>Biophysical Journal</i> , 2009 , 96, 540-51	2.9	53
26	Inhibition of α -Synuclein Aggregation by Antioxidants and Chaperones in Parkinson's Disease. <i>Focus on Structural Biology</i> , 2009 , 175-206		4
25	Mechanisms of DJ-1 neuroprotection in a cellular model of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2008 , 105, 2435-53	6	82
24	Methionine sulfoxide reductase A protects dopaminergic cells from Parkinson's disease-related insults. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 242-55	7.8	85
23	The Parkinson's disease protein alpha-synuclein disrupts cellular Rab homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 145-50	11.5	415
22	The use of cell-free systems to characterize parkinson's disease-related gene products 2008 , 597-627		1
21	Helical alpha-synuclein forms highly conductive ion channels. <i>Biochemistry</i> , 2007 , 46, 14369-79	3.2	106
20	Identification of the cysteine residue exposed by the conformational change in pig heart succinyl-CoA:3-ketoacid coenzyme A transferase on binding coenzyme A. <i>Biochemistry</i> , 2007 , 46, 10852-63	3.2	8
19	Destabilization of DJ-1 by familial substitution and oxidative modifications: implications for Parkinson's disease. <i>Biochemistry</i> , 2007 , 46, 5776-89	3.2	45
18	Effect of ions on the organization of phosphatidylcholine/phosphatidic acid bilayers. <i>Biophysical Journal</i> , 2007 , 93, 1630-8	2.9	28
17	Novel therapeutic strategies for the treatment of protein-misfolding diseases. <i>Expert Reviews in Molecular Medicine</i> , 2007 , 9, 1-34	6.7	93
16	Sirtuin 2 inhibitors rescue alpha-synuclein-mediated toxicity in models of Parkinson's disease. <i>Science</i> , 2007 , 317, 516-9	33.3	844
15	Errors in translation cause selective neurodegeneration. <i>ACS Chemical Biology</i> , 2006 , 1, 562-6	4.9	4
14	Alpha-synuclein blocks ER-Golgi traffic and Rab1 rescues neuron loss in Parkinson's models. <i>Science</i> , 2006 , 313, 324-8	33.3	1084
13	Identification of rotenone-induced modifications in alpha-synuclein using affinity pull-down and tandem mass spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 2422-31	7.8	53
12	Small heat shock proteins protect against alpha-synuclein-induced toxicity and aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 351, 631-8	3.4	148
11	Interactions among alpha-synuclein, dopamine, and biomembranes: some clues for understanding neurodegeneration in Parkinson's disease. <i>Journal of Molecular Neuroscience</i> , 2004 , 23, 23-34	3.3	154
10	The N-terminal repeat domain of alpha-synuclein inhibits beta-sheet and amyloid fibril formation. <i>Biochemistry</i> , 2003 , 42, 672-8	3.2	98

9	Annular alpha-synuclein protofibrils are produced when spherical protofibrils are incubated in solution or bound to brain-derived membranes. <i>Biochemistry</i> , 2002 , 41, 10209-17	3.2	327
8	Vesicle permeabilization by protofibrillar alpha-synuclein: implications for the pathogenesis and treatment of Parkinson's disease. <i>Biochemistry</i> , 2001 , 40, 7812-9	3.2	599
7	Kinetic stabilization of the alpha-synuclein protofibril by a dopamine-alpha-synuclein adduct. <i>Science</i> , 2001 , 294, 1346-9	33.3	968
6	Amyloid fibrillogenesis: themes and variations. <i>Current Opinion in Structural Biology</i> , 2000 , 10, 60-8	8.1	977
5	Pig heart CoA transferase exists as two oligomeric forms separated by a large kinetic barrier. <i>Biochemistry</i> , 2000 , 39, 11291-302	3.2	15
4	Inhibition of fibrillization and accumulation of prefibrillar oligomers in mixtures of human and mouse alpha-synuclein. <i>Biochemistry</i> , 2000 , 39, 10619-26	3.2	209
3	Productive interactions between the two domains of pig heart CoA transferase during folding and assembly. <i>Biochemistry</i> , 1997 , 36, 8807-20	3.2	8
2	Identification of glutamate 344 as the catalytic residue in the active site of pig heart CoA transferase. <i>Protein Science</i> , 1994 , 3, 975-81	6.3	28
1	Phospholipid membranes promote the early stage assembly of alpha-synuclein aggregates		2