

Mathew H Horrocks

List of Publications by Citations

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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.

32
papers

1,750
citations

21
h-index

38
g-index

38
ext. papers

2,327
ext. citations

8.8
avg, IF

4.34
L-index

#	Paper	IF	Citations
32	βsynuclein oligomers interact with ATP synthase and open the permeability transition pore in Parkinson's disease. <i>Nature Communications</i> , 2018 , 9, 2293	17.4	223
31	Alpha-Synuclein Oligomers Interact with Metal Ions to Induce Oxidative Stress and Neuronal Death in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 376-91	8.4	192
30	Kinetic model of the aggregation of alpha-synuclein provides insights into prion-like spreading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1206-15	11.5	130
29	A mechanistic model of tau amyloid aggregation based on direct observation of oligomers. <i>Nature Communications</i> , 2015 , 6, 7025	17.4	129
28	Ca ²⁺ is a key factor in βsynuclein-induced neurotoxicity. <i>Journal of Cell Science</i> , 2016 , 129, 1792-801	5.3	106
27	Multi-dimensional super-resolution imaging enables surface hydrophobicity mapping. <i>Nature Communications</i> , 2016 , 7, 13544	17.4	97
26	Single-Molecule Imaging of Individual Amyloid Protein Aggregates in Human Biofluids. <i>ACS Chemical Neuroscience</i> , 2016 , 7, 399-406	5.7	75
25	PSD95 nanoclusters are postsynaptic building blocks in hippocampus circuits. <i>Scientific Reports</i> , 2016 , 6, 24626	4.9	73
24	Single-molecule FRET studies on alpha-synuclein oligomerization of Parkinson's disease genetically related mutants. <i>Scientific Reports</i> , 2015 , 5, 16696	4.9	69
23	Fast flow microfluidics and single-molecule fluorescence for the rapid characterization of βsynuclein oligomers. <i>Analytical Chemistry</i> , 2015 , 87, 8818-26	7.8	65
22	The small heat shock protein Hsp27 binds βsynuclein fibrils, preventing elongation and cytotoxicity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4486-4497	5.4	64
21	Hsp70 Inhibits the Nucleation and Elongation of Tau and Sequesters Tau Aggregates with High Affinity. <i>ACS Chemical Biology</i> , 2018 , 13, 636-646	4.9	63
20	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6911-6915	16.4	56
19	Alpha synuclein aggregation drives ferroptosis: an interplay of iron, calcium and lipid peroxidation. <i>Cell Death and Differentiation</i> , 2020 , 27, 2781-2796	12.7	46
18	Nanobodies raised against monomeric γ-synuclein inhibit fibril formation and destabilize toxic oligomeric species. <i>BMC Biology</i> , 2017 , 15, 57	7.3	46
17	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic βSynuclein Oligomers. <i>Cell Reports</i> , 2018 , 23, 3492-3500	10.6	42
16	Mapping Surface Hydrophobicity of βSynuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , 2018 , 18, 7494-7501	11.5	42

15	Remarkably low affinity of CD4/peptide-major histocompatibility complex class II protein interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5682-7	11.5	37
14	Single molecule fluorescence under conditions of fast flow. <i>Analytical Chemistry</i> , 2012 , 84, 179-85	7.8	30
13	Nanosopic Characterisation of Individual Endogenous Protein Aggregates in Human Neuronal Cells. <i>ChemBioChem</i> , 2018 , 19, 2033-2038	3.8	21
12	Single-molecule measurements of transient biomolecular complexes through microfluidic dilution. <i>Analytical Chemistry</i> , 2013 , 85, 6855-9	7.8	21
11	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie</i> , 2019 , 131, 6985-6989	3.6	19
10	Detecting RNA base methylations in single cells by in situ hybridization. <i>Nature Communications</i> , 2018 , 9, 655	17.4	17
9	LIVE-PAINT allows super-resolution microscopy inside living cells using reversible peptide-protein interactions. <i>Communications Biology</i> , 2020 , 3, 458	6.7	16
8	Extrinsic Amyloid-Binding Dyes for Detection of Individual Protein Aggregates in Solution. <i>Analytical Chemistry</i> , 2018 , 90, 10385-10393	7.8	14
7	PEGylated liposomes associate with Wnt3A protein and expand putative stem cells in human bone marrow populations. <i>Nanomedicine</i> , 2017 , 12, 845-863	5.6	12
6	The changing point-spread function: single-molecule-based super-resolution imaging. <i>Histochemistry and Cell Biology</i> , 2014 , 141, 577-85	2.4	11
5	Shedding light on aberrant interactions - a review of modern tools for studying protein aggregates. <i>FEBS Journal</i> , 2018 , 285, 3604-3630	5.7	9
4	ESynuclein-Confocal Nanoscanning (ASYN-CONA), a Bead-Based Assay for Detecting Early-Stage ESynuclein Aggregation. <i>Analytical Chemistry</i> , 2019 , 91, 5582-5590	7.8	6
3	PAINT using proteins: A new brush for super-resolution artists. <i>Protein Science</i> , 2020 , 29, 2142-2149	6.3	5
2	A sticky situation: Aberrant protein-protein interactions in Parkinson's disease. <i>Seminars in Cell and Developmental Biology</i> , 2020 , 99, 65-77	7.5	4
1	LIVE-PAINT: Super-Resolution Microscopy Inside Live Cells Using Reversible Peptide-Protein Interactions		2