

Mathew H Horrocks

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,685
citations

279487

23
h-index

377514

34
g-index

38
all docs

38
docs citations

38
times ranked

3950
citing authors

#	ARTICLE	IF	CITATIONS
1	$\hat{\alpha}$ -synuclein oligomers interact with ATP synthase and open the permeability transition pore in Parkinson's disease. <i>Nature Communications</i> , 2018, 9, 2293.	5.8	351
2	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, 376-391.	2.5	266
3	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.	3.3	181
4	A mechanistic model of tau amyloid aggregation based on direct observation of oligomers. <i>Nature Communications</i> , 2015, 6, 7025.	5.8	179
5	Multi-dimensional super-resolution imaging enables surface hydrophobicity mapping. <i>Nature Communications</i> , 2016, 7, 13544.	5.8	152
6	Alpha synuclein aggregation drives ferroptosis: an interplay of iron, calcium and lipid peroxidation. <i>Cell Death and Differentiation</i> , 2020, 27, 2781-2796.	5.0	142
7	Calcium is a key factor in $\hat{\alpha}$ -synuclein induced neurotoxicity. <i>Journal of Cell Science</i> , 2016, 129, 1792-801.	1.2	136
8	PSD95 nanoclusters are postsynaptic building blocks in hippocampus circuits. <i>Scientific Reports</i> , 2016, 6, 24626.	1.6	122
9	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6911-6915.	7.2	100
10	Single-Molecule Imaging of Individual Amyloid Protein Aggregates in Human Biofluids. <i>ACS Chemical Neuroscience</i> , 2016, 7, 399-406.	1.7	99
11	The small heat shock protein Hsp27 binds $\hat{\alpha}$ -synuclein fibrils, preventing elongation and cytotoxicity. <i>Journal of Biological Chemistry</i> , 2018, 293, 4486-4497.	1.6	97
12	Hsp70 Inhibits the Nucleation and Elongation of Tau and Sequesters Tau Aggregates with High Affinity. <i>ACS Chemical Biology</i> , 2018, 13, 636-646.	1.6	96
13	Single-molecule FRET studies on alpha-synuclein oligomerization of Parkinson's disease genetically related mutants. <i>Scientific Reports</i> , 2015, 5, 16696.	1.6	92
14	Mapping Surface Hydrophobicity of $\hat{\alpha}$ -Synuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , 2018, 18, 7494-7501.	4.5	83
15	Fast Flow Microfluidics and Single-Molecule Fluorescence for the Rapid Characterization of $\hat{\alpha}$ -Synuclein Oligomers. <i>Analytical Chemistry</i> , 2015, 87, 8818-8826.	3.2	81
16	Nanobodies raised against monomeric $\hat{\alpha}$ -synuclein inhibit fibril formation and destabilize toxic oligomeric species. <i>BMC Biology</i> , 2017, 15, 57.	1.7	61
17	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic $\hat{\alpha}$ -Synuclein Oligomers. <i>Cell Reports</i> , 2018, 23, 3492-3500.	2.9	59
18	Nanosopic Characterisation of Individual Endogenous Protein Aggregates in Human Neuronal Cells. <i>ChemBioChem</i> , 2018, 19, 2033-2038.	1.3	52

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19	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, 5682-5687.	3.3	51
20	LIVE-PAINT allows super-resolution microscopy inside living cells using reversible peptide-protein interactions. <i>Communications Biology</i> , 2020, 3, 458.	2.0	39
21	Single Molecule Fluorescence under Conditions of Fast Flow. <i>Analytical Chemistry</i> , 2012, 84, 179-185.	3.2	35
22	Detecting RNA base methylations in single cells by in situ hybridization. <i>Nature Communications</i> , 2018, 9, 655.	5.8	28
23	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie</i> , 2019, 131, 6985-6989.	1.6	28
24	Single-Molecule Measurements of Transient Biomolecular Complexes through Microfluidic Dilution. <i>Analytical Chemistry</i> , 2013, 85, 6855-6859.	3.2	23
25	Extrinsic Amyloid-Binding Dyes for Detection of Individual Protein Aggregates in Solution. <i>Analytical Chemistry</i> , 2018, 90, 10385-10393.	3.2	20
26	The changing point-spread function: single-molecule-based super-resolution imaging. <i>Histochemistry and Cell Biology</i> , 2014, 141, 577-585.	0.8	19
27	PEGylated liposomes associate with Wnt3A protein and expand putative stem cells in human bone marrow populations. <i>Nanomedicine</i> , 2017, 12, 845-863.	1.7	19
28	PAINT using proteins: A new brush for super-resolution artists. <i>Protein Science</i> , 2020, 29, 2142-2149.	3.1	17
29	Probing TDP-43 condensation using an in silico designed aptamer. <i>Nature Communications</i> , 2022, 13, .	5.8	16
30	±-Synuclein Confocal Nanoscanning (ASYN-CONA), a Bead-Based Assay for Detecting Early-Stage ±-Synuclein Aggregation. <i>Analytical Chemistry</i> , 2019, 91, 5582-5590.	3.2	13
31	Shedding light on aberrant interactions – a review of modern tools for studying protein aggregates. <i>FEBS Journal</i> , 2018, 285, 3604-3630.	2.2	10
32	A sticky situation: Aberrant protein-protein interactions in Parkinson's disease. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 65-77.	2.3	6