

Suman De

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.

36
papers

835
citations

17
h-index

28
g-index

45
ext. papers

1,139
ext. citations

8.1
avg, IF

3.93
L-index

#	Paper	IF	Citations
36	Hyperphosphorylated tau self-assembles into amorphous aggregates eliciting TLR4-dependent responses.. <i>Nature Communications</i> , 2022 , 13, 2692	17.4	1
35	Fast 3D imaging of giant unilamellar vesicles using reflected light-sheet microscopy with single molecule sensitivity. <i>Journal of Microscopy</i> , 2021 , 285, 40	1.9	
34	Wild-type sTREM2 blocks A β aggregation and neurotoxicity, but the Alzheimer's R47H mutant increases A β aggregation. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100631	5.4	13
33	Soluble amyloid beta-containing aggregates are present throughout the brain at early stages of Alzheimer's disease. <i>Brain Communications</i> , 2021 , 3, fca147	4.5	2
32	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
31	Tumour necrosis factor induces increased production of extracellular amyloid- β and β synuclein-containing aggregates by human Alzheimer's disease neurons. <i>Brain Communications</i> , 2020 , 2, fca146	4.5	5
30	Direct measurement of lipid membrane disruption connects kinetics and toxicity of A β 2 aggregation. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 886-891	17.6	12
29	Analysis of β synuclein species enriched from cerebral cortex of humans with sporadic dementia with Lewy bodies. <i>Brain Communications</i> , 2020 , 2, fca010	4.5	12
28	Direct observation of prion protein oligomer formation reveals an aggregation mechanism with multiple conformationally distinct species. <i>Chemical Science</i> , 2019 , 10, 4588-4597	9.4	19
27	Different soluble aggregates of A β 2 can give rise to cellular toxicity through different mechanisms. <i>Nature Communications</i> , 2019 , 10, 1541	17.4	71
26	Increased Secondary Nucleation Underlies Accelerated Aggregation of the Four-Residue N-Terminally Truncated A β 2 Species A β -42. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 2374-2384	5.7	11
25	Soluble aggregates present in cerebrospinal fluid change in size and mechanism of toxicity during Alzheimer's disease progression. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 120	7.3	35
24	Imaging individual protein aggregates to follow aggregation and determine the role of aggregates in neurodegenerative disease. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 870-878	4.8	11
23	Optical Structural Analysis of Individual β synuclein Oligomers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4886-4890	16.4	27
22	Optical Structural Analysis of Individual β synuclein Oligomers. <i>Angewandte Chemie</i> , 2018 , 130, 4980-4984	3.6	
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	Nanosopic Characterisation of Individual Endogenous Protein Aggregates in Human Neuronal Cells. <i>ChemBioChem</i> , 2018 , 19, 2033-2038	3.8	21

19	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic β Synuclein Oligomers. <i>Cell Reports</i> , 2018 , 23, 3492-3500	10.6	42
18	Mapping Surface Hydrophobicity of β Synuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , 2018 , 18, 7494-7501	11.5	42
17	Quantifying Co-Oligomer Formation by β Synuclein. <i>ACS Nano</i> , 2018 , 12, 10855-10866	16.7	30
16	An approach to estimate spatial distribution of analyte within cells using spectrally-resolved fluorescence microscopy. <i>Methods and Applications in Fluorescence</i> , 2017 , 5, 014003	3.1	2
15	Heterogeneity in optical properties of near white-light emissive europium complex species revealed by spectroscopy of single nanoaggregates. <i>Chemical Physics Letters</i> , 2017 , 667, 247-253	2.5	4
14	Developmentally Regulated GTP binding protein 1 (DRG1) controls microtubule dynamics. <i>Scientific Reports</i> , 2017 , 7, 9996	4.9	21
13	Inhibiting the Ca Influx Induced by Human CSF. <i>Cell Reports</i> , 2017 , 21, 3310-3316	10.6	14
12	Ultrasensitive Measurement of Ca ²⁺ Influx into Lipid Vesicles Induced by Protein Aggregates. <i>Angewandte Chemie</i> , 2017 , 129, 7858-7862	3.6	6
11	Ultrasensitive Measurement of Ca Influx into Lipid Vesicles Induced by Protein Aggregates. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7750-7754	16.4	51
10	[P3074]: AN ULTRA-SENSITIVE ASSAY TO MEASURE AGGREGATE INDUCED CA ²⁺ INFLUX IN HUMAN CEREBROSPINAL FLUID 2017 , 13, P960-P960		1
9	Custom-Made Microspheres for Optical Tweezers. <i>Methods in Molecular Biology</i> , 2017 , 1486, 137-155	1.4	4
8	Heterogeneity during Plasticization of Poly(vinylpyrrolidone): Insights from Reorientational Mobility of Single Fluorescent Probes. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12404-12415	3.4	8
7	Plasticization of poly(vinylpyrrolidone) thin films under ambient humidity: insight from single-molecule tracer diffusion dynamics. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7771-82	3.4	54
6	Ultranarrow and widely tunable Mn ²⁺ -Induced photoluminescence from single Mn-doped nanocrystals of ZnS-CdS alloys. <i>Physical Review Letters</i> , 2013 , 110, 267401	7.4	73
5	Quantum-confined stark effect in localized luminescent centers within InGaN/GaN quantum-well based light emitting diodes. <i>Applied Physics Letters</i> , 2012 , 101, 121919	3.4	35
4	Spectrally Resolved Photoluminescence Imaging of ZnO Nanocrystals at Single-Particle Levels. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1241-7	6.4	39
3	Two Distinct Origins of Highly Localized Luminescent Centers within InGaN/GaN Quantum-Well Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2011 , 21, 3828-3835	15.6	42
2	Light-Emitting Diodes: Two Distinct Origins of Highly Localized Luminescent Centers within InGaN/GaN Quantum-Well Light-Emitting Diodes (Adv. Funct. Mater. 20/2011). <i>Advanced Functional Materials</i> , 2011 , 21, 3827-3827	15.6	

- 1 Optoelectronic behaviors and carrier dynamics of individual localized luminescent centers in InGaN quantum-well light emitting diodes. *Applied Physics Letters*, **2011**, 99, 251911 3.4 12