

# Suman De

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,382  
citations

361413

20  
h-index

361022

35  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1991  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperphosphorylated tau self-assembles into amorphous aggregates eliciting TLR4-dependent responses. <i>Nature Communications</i> , 2022, 13, 2692.	12.8	21
2	Structure-specific amyloid precipitation in biofluids. <i>Nature Chemistry</i> , 2022, 14, 1045-1053.	13.6	11
3	Wild-type sTREM2 blocks A $\beta$ aggregation and neurotoxicity, but the Alzheimer's R47H mutant increases A $\beta$ aggregation. <i>Journal of Biological Chemistry</i> , 2021, 296, 100631.	3.4	33
4	Soluble amyloid beta-containing aggregates are present throughout the brain at early stages of Alzheimer's disease. <i>Brain Communications</i> , 2021, 3, fcaab147.	3.3	32
5	Fast 3D imaging of giant unilamellar vesicles using reflected light-sheet microscopy with single molecule sensitivity. <i>Journal of Microscopy</i> , 2021, 285, 40.	1.8	0
6	Tumour necrosis factor induces increased production of extracellular amyloid- $\beta$ and $\beta$ -synuclein-containing aggregates by human Alzheimer's disease neurons. <i>Brain Communications</i> , 2020, 2, fcaa146.	3.3	14
7	Direct measurement of lipid membrane disruption connects kinetics and toxicity of A $\beta$ 242 aggregation. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 886-891.	8.2	38
8	Alpha synuclein aggregation drives ferroptosis: an interplay of iron, calcium and lipid peroxidation. <i>Cell Death and Differentiation</i> , 2020, 27, 2781-2796.	11.2	142
9	Analysis of $\beta$ -synuclein species enriched from cerebral cortex of humans with sporadic dementia with Lewy bodies. <i>Brain Communications</i> , 2020, 2, fcaa010.	3.3	21
10	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.	5.2	64
11	Direct observation of prion protein oligomer formation reveals an aggregation mechanism with multiple conformationally distinct species. <i>Chemical Science</i> , 2019, 10, 4588-4597.	7.4	22
12	Different soluble aggregates of A $\beta$ 242 can give rise to cellular toxicity through different mechanisms. <i>Nature Communications</i> , 2019, 10, 1541.	12.8	140
13	Increased Secondary Nucleation Underlies Accelerated Aggregation of the Four-Residue N-Terminally Truncated A $\beta$ 242 Species A $\beta$ 25-42. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2374-2384.	3.5	16
14	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.	2.3	15
15	Optical Structural Analysis of Individual $\beta$ -Synuclein Oligomers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4886-4890.	13.8	40
16	Optical Structural Analysis of Individual $\beta$ -Synuclein Oligomers. <i>Angewandte Chemie</i> , 2018, 130, 4980-4984.	2.0	0
17	Hsp70 Inhibits the Nucleation and Elongation of Tau and Sequesters Tau Aggregates with High Affinity. <i>ACS Chemical Biology</i> , 2018, 13, 636-646.	3.4	96
18	Mapping Surface Hydrophobicity of $\beta$ -Synuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , 2018, 18, 7494-7501.	9.1	83

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19	Quantifying Co-Oligomer Formation by $\beta$ -Synuclein. ACS Nano, 2018, 12, 10855-10866.	14.6	38
20	Nanosopic Characterisation of Individual Endogenous Protein Aggregates in Human Neuronal Cells. ChemBioChem, 2018, 19, 2033-2038.	2.6	52
21	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic $\beta$ -Synuclein Oligomers. Cell Reports, 2018, 23, 3492-3500.	6.4	59
22	An approach to estimate spatial distribution of analyte within cells using spectrally-resolved fluorescence microscopy. Methods and Applications in Fluorescence, 2017, 5, 014003.	2.3	2
23	Heterogeneity in optical properties of near white-light emissive europium complex species revealed by spectroscopy of single nanoaggregates. Chemical Physics Letters, 2017, 667, 247-253.	2.6	4
24	Developmentally Regulated GTP binding protein 1 (DRG1) controls microtubule dynamics. Scientific Reports, 2017, 7, 9996.	3.3	26
25	Inhibiting the Ca <sup>2+</sup> Influx Induced by Human CSF. Cell Reports, 2017, 21, 3310-3316.	6.4	20
26	Ultrasensitive Measurement of Ca <sup>2+</sup> Influx into Lipid Vesicles Induced by Protein Aggregates. Angewandte Chemie, 2017, 129, 7858-7862.	2.0	9
27	Ultrasensitive Measurement of Ca <sup>2+</sup> Influx into Lipid Vesicles Induced by Protein Aggregates. Angewandte Chemie - International Edition, 2017, 56, 7750-7754.	13.8	72
28	[P3 <sup>074</sup> ]: AN ULTRA-SENSITIVE ASSAY TO MEASURE AGGREGATE INDUCED CA <sup>2+</sup> INFLUX IN HUMAN CEREBROSPINAL FLUID. Alzheimer's and Dementia, 2017, 13, P960.	0.8	1
29	Custom-Made Microspheres for Optical Tweezers. Methods in Molecular Biology, 2017, 1486, 137-155.	0.9	7
30	Heterogeneity during Plasticization of Poly(vinylpyrrolidone): Insights from Reorientational Mobility of Single Fluorescent Probes. Journal of Physical Chemistry B, 2016, 120, 12404-12415.	2.6	9
31	Plasticization of Poly(vinylpyrrolidone) Thin Films under Ambient Humidity: Insight from Single-Molecule Tracer Diffusion Dynamics. Journal of Physical Chemistry B, 2013, 117, 7771-7782.	2.6	62
32	Ultranarrow and Widely Tunable Mn <sup>2+</sup> -Induced Photoluminescence from Single Mn-Doped Nanocrystals of ZnS-CdS Alloys. Physical Review Letters, 2013, 110, 267401.	7.8	84
33	Quantum-confined stark effect in localized luminescent centers within InGaN/GaN quantum-well based light emitting diodes. Applied Physics Letters, 2012, 101, .	3.3	40
34	Spectrally Resolved Photoluminescence Imaging of ZnO Nanocrystals at Single-Particle Levels. Journal of Physical Chemistry Letters, 2011, 2, 1241-1247.	4.6	43
35	Two Distinct Origins of Highly Localized Luminescent Centers within InGaN/GaN Quantum-Well Light-Emitting Diodes. Advanced Functional Materials, 2011, 21, 3828-3835.	14.9	45
36	Light-Emitting Diodes: Two Distinct Origins of Highly Localized Luminescent Centers within InGaN/GaN Quantum-Well Light-Emitting Diodes (Adv. Funct. Mater. 20/2011). Advanced Functional Materials, 2011, 21, 3827-3827.	14.9	0

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37	Optoelectronic behaviors and carrier dynamics of individual localized luminescent centers in InGaN quantum-well light emitting diodes. Applied Physics Letters, 2011, 99, .	3.3	13