

Steven F Lee

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,136
citations

230014

27
h-index

232693

48
g-index

55
all docs

55
docs citations

55
times ranked

5811
citing authors

#	ARTICLE	IF	CITATIONS
1	3D structures of individual mammalian genomes studied by single-cell Hi-C. <i>Nature</i> , 2017, 544, 59-64.	13.7	691
2	Initiation of T cell signaling by CD45 segregation at 'close contacts'. <i>Nature Immunology</i> , 2016, 17, 574-582.	7.0	253
3	Single-molecule visualization of DNA G-quadruplex formation in live cells. <i>Nature Chemistry</i> , 2020, 12, 832-837.	6.6	235
4	Brightening, Blinking, Bluing and Bleaching in the Life of a Quantum Dot: Friend or Foe?. <i>ChemPhysChem</i> , 2009, 10, 2174-2191.	1.0	158
5	Multi-dimensional super-resolution imaging enables surface hydrophobicity mapping. <i>Nature Communications</i> , 2016, 7, 13544.	5.8	152
6	PSD95 nanoclusters are postsynaptic building blocks in hippocampus circuits. <i>Scientific Reports</i> , 2016, 6, 24626.	1.6	122
7	Single-Molecule Imaging of Individual Amyloid Protein Aggregates in Human Biofluids. <i>ACS Chemical Neuroscience</i> , 2016, 7, 399-406.	1.7	99
8	Super-Resolution Imaging of the Nucleoid-Associated Protein HU in <i>Caulobacter crescentus</i> . <i>Biophysical Journal</i> , 2011, 100, L31-L33.	0.2	83
9	Mapping Surface Hydrophobicity of α -Synuclein Oligomers at the Nanoscale. <i>Nano Letters</i> , 2018, 18, 7494-7501.	4.5	83
10	Control of actin polymerization via the coincidence of phosphoinositides and high membrane curvature. <i>Journal of Cell Biology</i> , 2017, 216, 3745-3765.	2.3	79
11	Ultrasensitive Measurement of Ca^{2+} Influx into Lipid Vesicles Induced by Protein Aggregates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7750-7754.	7.2	72
12	Improved Super-Resolution Microscopy with Oxazine Fluorophores in Heavy Water. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8948-8951.	7.2	63
13	Capturing resting T cells: the perils of PLL. <i>Nature Immunology</i> , 2018, 19, 203-205.	7.0	62
14	Nanobodies raised against monomeric α -synuclein inhibit fibril formation and destabilize toxic oligomeric species. <i>BMC Biology</i> , 2017, 15, 57.	1.7	61
15	Rational design of a conformation-specific antibody for the quantification of $A\beta^{2}$ oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13509-13518.	3.3	61
16	A cell topography-based mechanism for ligand discrimination by the T cell receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14002-14010.	3.3	60
17	Poly(ADP-Ribose) Links the DNA Damage Response and Biomineralization. <i>Cell Reports</i> , 2019, 27, 3124-3138.e13.	2.9	58
18	A microfluidic platform for trapping, releasing and super-resolution imaging of single cells. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 680-691.	4.0	54

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19	Nanosopic Characterisation of Individual Endogenous Protein Aggregates in Human Neuronal Cells. <i>ChemBioChem</i> , 2018, 19, 2033-2038.	1.3	52
20	Spectrally Resolved Photodynamics of Individual Emitters in Large-Area Monolayers of Hexagonal Boron Nitride. <i>ACS Nano</i> , 2019, 13, 4538-4547.	7.3	47
21	ThX – a next-generation probe for the early detection of amyloid aggregates. <i>Chemical Science</i> , 2020, 11, 4578-4583.	3.7	43
22	Three-Dimensional Super-Resolution in Eukaryotic Cells Using the Double-Helix Point Spread Function. <i>Biophysical Journal</i> , 2017, 112, 1444-1454.	0.2	41
23	Receptor Quaternary Organization Explains G-Protein-Coupled Receptor Family Structure. <i>Cell Reports</i> , 2017, 20, 2654-2665.	2.9	40
24	Optical Structural Analysis of Individual β -Synuclein Oligomers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4886-4890.	7.2	40
25	Quantification of DNA-associated proteins inside eukaryotic cells using single-molecule localization microscopy. <i>Nucleic Acids Research</i> , 2014, 42, e146-e146.	6.5	35
26	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.	1.6	33
27	A randomized control trial evaluating fluorescent ink versus dark ink tattoos for breast radiotherapy. <i>British Journal of Radiology</i> , 2016, 89, 20160288.	1.0	32
28	FRET-enhanced photostability allows improved single-molecule tracking of proteins and protein complexes in live mammalian cells. <i>Nature Communications</i> , 2018, 9, 2520.	5.8	31
29	Single-Molecule Light-Sheet Imaging of Suspended T Cells. <i>Biophysical Journal</i> , 2018, 114, 2200-2211.	0.2	31
30	Referenced Single-Molecule Measurements Differentiate between GPCR Oligomerization States. <i>Biophysical Journal</i> , 2015, 109, 1798-1806.	0.2	29
31	Quantum Emitter Localization in Layer-Engineered Hexagonal Boron Nitride. <i>ACS Nano</i> , 2021, 15, 13591-13603.	7.3	27
32	vLUME: 3D virtual reality for single-molecule localization microscopy. <i>Nature Methods</i> , 2020, 17, 1097-1099.	9.0	23
33	Hyperphosphorylated tau self-assembles into amorphous aggregates eliciting TLR4-dependent responses. <i>Nature Communications</i> , 2022, 13, 2692.	5.8	21
34	A Comparative Photophysical Study of Structural Modifications of Thioflavin T-Inspired Fluorophores. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8406-8416.	2.1	20
35	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
36	Sensitive light-sheet microscopy in multiwell plates using an AFM cantilever. <i>Biomedical Optics Express</i> , 2018, 9, 5863.	1.5	17

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37	Single-molecule fluorescence detection of a tricyclic nucleoside analogue. <i>Chemical Science</i> , 2021, 12, 2623-2628.	3.7	16
38	Combining fluorescence imaging with Hi-C to study 3D genome architecture of the same single cell. <i>Nature Protocols</i> , 2018, 13, 1034-1061.	5.5	14
39	Virtual-'Light-Sheet' Single-Molecule Localisation Microscopy Enables Quantitative Optical Sectioning for Super-Resolution Imaging. <i>PLoS ONE</i> , 2015, 10, e0125438.	1.1	13
40	Bifunctional fluorescent probes for detection of amyloid aggregates and reactive oxygen species. <i>Royal Society Open Science</i> , 2018, 5, 171399.	1.1	11
41	CalQuo: automated, simultaneous single-cell and population-level quantification of global intracellular Ca ²⁺ responses. <i>Scientific Reports</i> , 2015, 5, 16487.	1.6	10
42	Ultrasensitive Measurement of Ca ²⁺ Influx into Lipid Vesicles Induced by Protein Aggregates. <i>Angewandte Chemie</i> , 2017, 129, 7858-7862.	1.6	9
43	Single-Molecule Imaging of Wnt3A Protein Diffusion on Living Cell Membranes. <i>Biophysical Journal</i> , 2017, 113, 2762-2767.	0.2	5
44	A Comparative Study of High-Contrast Fluorescence Lifetime Probes for Imaging Amyloid in Tissue. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13710-13717.	1.2	4
45	Weighing one protein with light. <i>Science</i> , 2018, 360, 378-379.	6.0	3
46	The Costs of Close Contacts: Visualizing the Energy Landscape of Cell Contacts at the Nanoscale. <i>Biophysical Journal</i> , 2020, 118, 1261-1269.	0.2	2
47	Optical Structural Analysis of Individual Î±-Synuclein Oligomers. <i>Angewandte Chemie</i> , 2018, 130, 4980-4984.	1.6	0