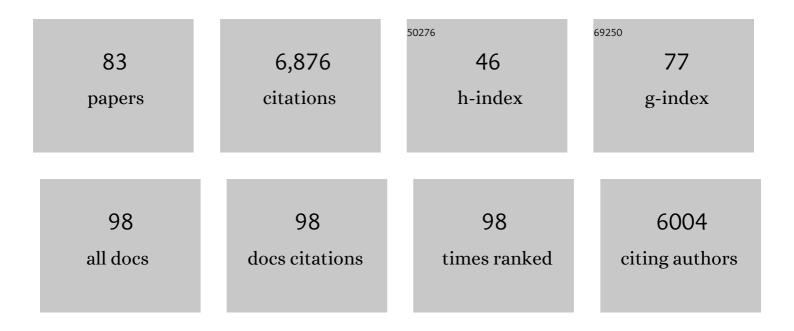
## **Thomas Surrey**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1955881/publications.pdf Version: 2024-02-01



THOMAS SUDDEY

| #  | Article                                                                                                                                                                                                                             | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Reconstitution of a microtubule plus-end tracking system in vitro. Nature, 2007, 450, 1100-1105.                                                                                                                                    | 27.8 | 457       |
| 2  | EBs Recognize a Nucleotide-Dependent Structural Cap at Growing Microtubule Ends. Cell, 2012, 149, 371-382.                                                                                                                          | 28.9 | 346       |
| 3  | Thermal fluctuations of grafted microtubules provide evidence of a length-dependent persistence<br>length. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103,<br>10248-10253.              | 7.1  | 316       |
| 4  | A Minimal Midzone Protein Module Controls Formation and Length of Antiparallel Microtubule<br>Overlaps. Cell, 2010, 142, 420-432.                                                                                                   | 28.9 | 282       |
| 5  | CLIP-170 tracks growing microtubule ends by dynamically recognizing composite EB1/tubulin-binding sites. Journal of Cell Biology, 2008, 183, 1223-1233.                                                                             | 5.2  | 269       |
| 6  | Protein repellent properties of covalently attached PEG coatings on nanostructured SiO2-based interfaces. Biomaterials, 2007, 28, 4739-4747.                                                                                        | 11.4 | 199       |
| 7  | GTPÎ <sup>3</sup> S microtubules mimic the growing microtubule end structure recognized by end-binding proteins<br>(EBs). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108,<br>3988-3993. | 7.1  | 196       |
| 8  | EB1 Accelerates Two Conformational Transitions Important for Microtubule Maturation and Dynamics. Current Biology, 2014, 24, 372-384.                                                                                               | 3.9  | 187       |
| 9  | Directional Switching of the Kinesin Cin8 Through Motor Coupling. Science, 2011, 332, 94-99.                                                                                                                                        | 12.6 | 163       |
| 10 | Complementary activities of TPX2 and chTOG constitute an efficient importin-regulated microtubuleÂnucleation module. Nature Cell Biology, 2015, 17, 1422-1434.                                                                      | 10.3 | 152       |
| 11 | Microtubule nucleation: beyond the template. Nature Reviews Molecular Cell Biology, 2017, 18, 702-710.                                                                                                                              | 37.0 | 148       |
| 12 | Microtubule organization by the antagonistic mitotic motors kinesin-5 and kinesin-14. Journal of Cell<br>Biology, 2010, 189, 465-480.                                                                                               | 5.2  | 143       |
| 13 | Development and Biological Evaluation of Potent and Specific Inhibitors of Mitotic Kinesin Eg5.<br>ChemBioChem, 2005, 6, 1173-1177.                                                                                                 | 2.6  | 139       |
| 14 | A Kinesin-like Motor Inhibits Microtubule Dynamic Instability. Science, 2004, 303, 1519-1522.                                                                                                                                       | 12.6 | 138       |
| 15 | Folding and Membrane Insertion of the Trimeric β-Barrel Protein OmpF. Biochemistry, 1996, 35, 2283-2288.                                                                                                                            | 2.5  | 134       |
| 16 | Processive movement of single kinesins on crowded microtubules visualized using quantum dots.<br>EMBO Journal, 2006, 25, 267-277.                                                                                                   | 7.8  | 134       |
| 17 | A designed ankyrin repeat protein selected to bind to tubulin caps the microtubule plus end.<br>Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12011-12016.                            | 7.1  | 133       |
| 18 | Self-organisation and forces in the microtubule cytoskeleton. Current Opinion in Cell Biology, 2003, 15, 118-124.                                                                                                                   | 5.4  | 122       |

| #  | Article                                                                                                                                                                                                                      | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Obstacles on the Microtubule Reduce the Processivity of Kinesin-1 in a Minimal In Vitro System and in<br>Cell Extract. Biophysical Journal, 2009, 96, 3341-3353.                                                             | 0.5  | 114       |
| 20 | Kinetics of Folding and Membrane Insertion of a β-Barrel Membrane Protein. Journal of Biological<br>Chemistry, 1995, 270, 28199-28203.                                                                                       | 3.4  | 113       |
| 21 | The size of the EB cap determines instantaneous microtubule stability. ELife, 2016, 5, .                                                                                                                                     | 6.0  | 112       |
| 22 | Reconstitution of the human cytoplasmic dynein complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20895-20900.                                                             | 7.1  | 111       |
| 23 | Fluorescence Microscopy Assays on Chemically Functionalized Surfaces for Quantitative Imaging of Microtubule, Motor, and +TIP Dynamics. Methods in Cell Biology, 2010, 95, 555-580.                                          | 1.1  | 108       |
| 24 | Processive kinesins require loose mechanical coupling for efficient collective motility. EMBO Reports, 2008, 9, 1121-1127.                                                                                                   | 4.5  | 105       |
| 25 | Dynamic Concentration of Motors in Microtubule Arrays. Physical Review Letters, 2001, 86, 3192-3195.                                                                                                                         | 7.8  | 101       |
| 26 | Reconstitution of a hierarchical +TIP interaction network controlling microtubule end tracking of dynein. Nature Cell Biology, 2014, 16, 804-811.                                                                            | 10.3 | 100       |
| 27 | Microtubule Nucleation Properties of Single Human γTuRCs Explained by Their Cryo-EM Structure.<br>Developmental Cell, 2020, 53, 603-617.e8.                                                                                  | 7.0  | 99        |
| 28 | Phosphorylation Relieves Autoinhibition of the Kinetochore Motor Cenp-E. Molecular Cell, 2008, 29, 637-643.                                                                                                                  | 9.7  | 98        |
| 29 | Llama-Derived Single-Chain Antibody Fragments Directed to Rotavirus VP6 Protein Possess Broad<br>Neutralizing Activity In Vitro and Confer Protection against Diarrhea in Mice. Journal of Virology,<br>2008, 82, 9753-9764. | 3.4  | 97        |
| 30 | Mutations in Human Tubulin Proximal to the Kinesin-Binding Site Alter Dynamic Instability at<br>Microtubule Plus- and Minus-Ends. Developmental Cell, 2016, 37, 72-84.                                                       | 7.0  | 94        |
| 31 | Determinants of Polar versus Nematic Organization in Networks of Dynamic Microtubules and<br>Mitotic Motors. Cell, 2018, 175, 796-808.e14.                                                                                   | 28.9 | 92        |
| 32 | Drosophila Ensconsin Promotes Productive Recruitment of Kinesin-1 to Microtubules. Developmental<br>Cell, 2008, 15, 866-876.                                                                                                 | 7.0  | 91        |
| 33 | Synthesis and biological evaluation of new tetrahydro-β-carbolines as inhibitors of the mitotic kinesin<br>Eg5. Bioorganic and Medicinal Chemistry, 2005, 13, 6094-6111.                                                     | 3.0  | 88        |
| 34 | Modelling microtubule patterns. Nature Cell Biology, 2006, 8, 1204-1211.                                                                                                                                                     | 10.3 | 88        |
| 35 | Aster migration determines the length scale of nuclear separation in the <i>Drosophila</i> syncytial embryo. Journal of Cell Biology, 2012, 197, 887-895.                                                                    | 5.2  | 88        |
| 36 | Structural insight into TPX2-stimulated microtubule assembly. ELife, 2017, 6, .                                                                                                                                              | 6.0  | 87        |

| #  | Article                                                                                                                                                                                    | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Poleward transport of Eg5 by dynein–dynactin in <i>Xenopus laevis</i> egg extract spindles. Journal of Cell Biology, 2008, 182, 715-726.                                                   | 5.2  | 85        |
| 38 | Phosphorylation by Cdk1 Increases the Binding of Eg5 to Microtubules In Vitro and in Xenopus Egg<br>Extract Spindles. PLoS ONE, 2008, 3, e3936.                                            | 2.5  | 81        |
| 39 | The speed of GTP hydrolysis determines GTP cap size and controls microtubule stability. ELife, 2020, 9, .                                                                                  | 6.0  | 77        |
| 40 | Selection of Genetically Encoded Fluorescent Single Domain Antibodies Engineered for Efficient<br>Expression in Escherichia coli. Journal of Biological Chemistry, 2007, 282, 36314-36320. | 3.4  | 72        |
| 41 | Microtubule organization in vitro. Current Opinion in Cell Biology, 2013, 25, 23-29.                                                                                                       | 5.4  | 69        |
| 42 | The parkinsonism producing neurotoxin MPP+affects microtubule dynamics by acting as a destabilising factor. FEBS Letters, 2005, 579, 4781-4786.                                            | 2.8  | 68        |
| 43 | Nucleotide-induced conformations in the neck region of dimeric kinesin. EMBO Journal, 2003, 22, 1518-1528.                                                                                 | 7.8  | 66        |
| 44 | Combinatorial regulation of the balance between dynein microtubule end accumulation and initiation of directed motility. EMBO Journal, 2017, 36, 3387-3404.                                | 7.8  | 61        |
| 45 | Microtubule Motility on Reconstituted Meiotic Chromatin. Current Biology, 2010, 20, 763-769.                                                                                               | 3.9  | 60        |
| 46 | A Novel Approach to Indoloditerpenes by Nazarov Photocyclization: Synthesis and Biological<br>Investigations of Terpendole E Analogues. Organic Letters, 2010, 12, 2096-2099.              | 4.6  | 58        |
| 47 | Microtubule Cliding and Cross-Linked Microtubule Networks on Micropillar Interfaces. Nano Letters, 2005, 5, 2630-2634.                                                                     | 9.1  | 50        |
| 48 | Self-Organization of Minimal Anaphase Spindle Midzone Bundles. Current Biology, 2019, 29, 2120-2130.e7.                                                                                    | 3.9  | 43        |
| 49 | End-binding proteins and Ase1/PRC1 define local functionality of structurally distinct parts of the microtubule cytoskeleton. Trends in Cell Biology, 2013, 23, 54-63.                     | 7.9  | 42        |
| 50 | Motor protein KIFC5A interacts with Nubp1 and Nubp2, and is implicated in the regulation of centrosome duplication. Journal of Cell Science, 2006, 119, 2035-2047.                         | 2.0  | 37        |
| 51 | Microtubule aging probed by microfluidics-assisted tubulin washout. Molecular Biology of the Cell, 2016, 27, 3563-3573.                                                                    | 2.1  | 36        |
| 52 | An unconventional interaction between Dis1/TOG and Mal3/EB1 promotes the fidelity of chromosome segregation. Journal of Cell Science, 2016, 129, 4592-4606.                                | 2.0  | 33        |
| 53 | Organization of Motor Proteins into Functional Micropatterns Fabricated by a Photoinduced Fenton Reaction. Angewandte Chemie - International Edition, 2009, 48, 9188-9191.                 | 13.8 | 30        |
| 54 | Key Factors for Stable Retention of Fluorophores and Labeled Biomolecules in Droplet-Based<br>Microfluidics. Analytical Chemistry, 2015, 87, 2063-2067.                                    | 6.5  | 30        |

| #  | Article                                                                                                                                                                                                            | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | A long lifetime component in the tryptophan fluorescence of some proteins. European Biophysics<br>Journal, 1995, 23, 423-32.                                                                                       | 2.2  | 29        |
| 56 | Spherical network contraction forms microtubule asters in confinement. Soft Matter, 2018, 14, 901-909.                                                                                                             | 2.7  | 29        |
| 57 | Structural transitions in the GTP cap visualized by cryo-electron microscopy of catalytically inactive microtubules. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1  | 28        |
| 58 | Motor-mediated Cortical versus Astral Microtubule Organization in Lipid-monolayered Droplets.<br>Journal of Biological Chemistry, 2014, 289, 22524-22535.                                                          | 3.4  | 27        |
| 59 | Steady-state EB cap size fluctuations are determined by stochastic microtubule growth and maturation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3427-3432.       | 7.1  | 25        |
| 60 | Ensembles of Bidirectional Kinesin Cin8 Produce Additive Forces in Both Directions of Movement.<br>Biophysical Journal, 2017, 113, 2055-2067.                                                                      | 0.5  | 25        |
| 61 | Reconstitution and Quantification of Dynamic Microtubule End Tracking In Vitro Using TIRF<br>Microscopy. Methods in Molecular Biology, 2011, 777, 127-145.                                                         | 0.9  | 24        |
| 62 | Motile microtubule crosslinkers require distinct dynamic properties for correct functioning during spindle organization in <i>Xenopus</i> egg extract. Journal of Cell Science, 2009, 122, 1295-1300.              | 2.0  | 21        |
| 63 | Micropattern-Controlled Local Microtubule Nucleation, Transport, and Mesoscale Organization. ACS Chemical Biology, 2013, 8, 673-678.                                                                               | 3.4  | 21        |
| 64 | Effects of ligand binding on the internal dynamics of maltose-binding protein. FEBS Journal, 1999, 266,<br>477-483.                                                                                                | 0.2  | 19        |
| 65 | Regulation of processive motion and microtubule localization of cytoplasmic dynein. Biochemical Society Transactions, 2015, 43, 48-57.                                                                             | 3.4  | 19        |
| 66 | Important factors determining the nanoscale tracking precision of dynamic microtubule ends. Journal of Microscopy, 2016, 261, 67-78.                                                                               | 1.8  | 18        |
| 67 | A single Drosophila embryo extract for the study of mitosis ex vivo. Nature Protocols, 2013, 8, 310-324.                                                                                                           | 12.0 | 16        |
| 68 | Selection and Characterization of Artificial Proteins Targeting the Tubulin α Subunit. Structure, 2019,<br>27, 497-506.e4.                                                                                         | 3.3  | 16        |
| 69 | Effects of spatial dimensionality and steric interactions on microtubule-motor self-organization.<br>Physical Biology, 2019, 16, 046004.                                                                           | 1.8  | 16        |
| 70 | Phototriggerable 2′,7-Caged Paclitaxel. PLoS ONE, 2012, 7, e43657.                                                                                                                                                 | 2.5  | 13        |
| 71 | Gradual compaction of the central spindle decreases its dynamicity in PRC1 and EB1 gene-edited cells.<br>Life Science Alliance, 2021, 4, e202101222.                                                               | 2.8  | 10        |
| 72 | Real-Time Imaging of Single γTuRC-Mediated Microtubule Nucleation Events In Vitro by TIRF Microscopy.<br>Methods in Molecular Biology, 2022, 2430, 315-336.                                                        | 0.9  | 9         |

| #  | Article                                                                                                                              | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Dynamics of microtubule aster formation by motor complexes. Comptes Rendus Physique, 2001, 2, 841-847.                               | 0.1  | 8         |
| 74 | The multiple talents of kinesin-8. Nature Cell Biology, 2013, 15, 889-891.                                                           | 10.3 | 8         |
| 75 | Micropattern-Guided Assembly of Overlapping Pairs of Dynamic Microtubules. Methods in Enzymology, 2014, 540, 339-360.                | 1.0  | 8         |
| 76 | Enhanced internal dynamics of a membrane transport protein during substrate translocation. Protein Science, 2000, 9, 2246-2250.      | 7.6  | 6         |
| 77 | LIS1 Clamps Dynein to the Microtubule. Cell, 2012, 150, 877-879.                                                                     | 28.9 | 6         |
| 78 | Purification and characterisation of the fission yeast Ndc80 complex. Protein Expression and Purification, 2017, 135, 61-69.         | 1.3  | 5         |
| 79 | Seeded Microtubule Growth for Cryoelectron Microscopy of End-Binding Proteins. Methods in<br>Molecular Biology, 2014, 1136, 247-260. | 0.9  | 3         |
| 80 | Self-organization of motors and microtubules in lipid-monolayered droplets. Methods in Cell<br>Biology, 2015, 128, 39-55.            | 1.1  | 2         |
| 81 | A theoretical model of mitotic spindle elongation under experimental constraints. Molecular Systems<br>Biology, 2008, 4, 194.        | 7.2  | 0         |
| 82 | MOTOR PROTEIN DRIVEN MICROTUBULE TRANSPORT ON GOLD PARTICLE NANOPATTERNS. Biophysical Reviews and Letters, 2009, 04, 153-162.        | 0.8  | 0         |
| 83 | Dynein and dynactin at microtubule plus ends. , 2018, , 556-567.                                                                     |      | Ο         |