Dan L Sackett

List of Publications by Year
in descending order

50 papers	2,711 citations	331670 21 h-index	223800 46 g-index
52 all docs	52 docs citations	52 times ranked	3592 citing authors

#	Article	IF	Citations
1	Paclitaxel-resistant Human Ovarian Cancer Cells Have Mutant Î²-Tubulins That Exhibit Impaired Paclitaxel-driven Polymerization. Journal of Biological Chemistry, 1997, 272, 17118-17125.	3.4	604
2	p53 is associated with cellular microtubules and is transported to the nucleus by dynein. Nature Cell Biology, 2000, 2, 709-717.	10.3	335
3	Tubulin binding blocks mitochondrial voltage-dependent anion channel and regulates respiration. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18746-18751.	7.1	312
4	Mitosis is not a key target of microtubule agents in patient tumors. Nature Reviews Clinical Oncology, 2011, 8, 244-250.	27.6	273
5	Microtubule-targeting agents augment the toxicity of DNA-damaging agents by disrupting intracellular trafficking of DNA repair proteins. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1571-1576.	7.1	148
6	A Unique Mode of Microtubule Stabilization Induced by Peloruside A. Journal of Molecular Biology, 2008, 378, 1016-1030.	4.2	110
7	Inhibitors of Histone Deacetylases Alter Kinetochore Assembly by Disrupting Pericentromeric Heterochromatin. Cell Cycle, 2005, 4, 717-726.	2.6	105
8	Tumor Cells Resistant to a Microtubule-Depolymerizing Hemiasterlin Analogue, HTI-286, Have Mutations in Î±- or Î²-Tubulin and Increased Microtubule Stability. Biochemistry, 2004, 43, 13944-13954.	2.5	66
9	Cation selective promotion of tubulin polymerization by alkali metal chlorides. Protein Science, 1996, 5, 2020-2028.	7.6	64
10	Effects of Anticancer Drugs on Chromosome Instability and New Clinical Implications for Tumor-Suppressing Therapies. Cancer Research, 2016, 76, 902-911.	0.9	60
11	Katanin Severing and Binding Microtubules Are Inhibited by Tubulin Carboxy Tails. Biophysical Journal, 2015, 109, 2546-2561.	0.5	49
12	Thermodynamics of reversible monomer-dimer association of tubulin. Biochemistry, 1991, 30, 3511-3517.	2.5	47
13	Site-Specific Orthogonal Labeling of the Carboxy Terminus of Î±-Tubulin. ACS Chemical Biology, 2010, 5, 777-785.	3.4	46
14	Structure and Function in the Tubulin Dimer and the Role of the Acidic Carboxyl Terminus. Sub-Cellular Biochemistry, 1995, 24, 255-302.	2.4	41
15	Local Unfolding and the Stepwise Loss of the Functional Properties of Tubulin. Biochemistry, 1994, 33, 12868-12878.	2.5	39
16	Isolation of microtubule protein from mammalian brain frozen for extended periods of time. Protein Expression and Purification, 1991, 2, 390-393.	1.3	37
17	The Cryptophycinâ˜Tubulin Ring Structure Indicates Two Points of Curvature in the Tubulin Dimerâ€. Biochemistry, 2002, 41, 12662-12669.	2.5	36
18	Detection of oxidative stress-induced carbonylation in live mammalian cells. Free Radical Biology and Medicine, 2015, 84, 11-21.	2.9	33

#	Article	IF	Citations
19	Single cell-based fluorescence lifetime imaging of intracellular oxygenation and metabolism. Redox Biology, 2020, 34, 101549.	9.0	31
20	Tubulin Tail Sequences and Post-translational Modifications Regulate Closure of Mitochondrial Voltage-dependent Anion Channel (VDAC). Journal of Biological Chemistry, 2015, 290, 26784-26789.	3.4	29
21	Mutations in the Î²-tubulin binding site for peloruside A confer resistance by targeting a cleft significant in side chain binding. Cell Cycle, 2011, 10, 3387-3396.	2.6	23
22	Measurement of In Vitro Microtubule Polymerization by Turbidity and Fluorescence. Methods in Cell Biology, 2013, 115, 215-229.	1.1	23
23	Evaluating reproducibility and similarity of mass and intensity data in complex spectraâ€"applications to tubulin. Journal of the American Society for Mass Spectrometry, 2008, 19, 367-374.	2.8	18
24	New Sources of Chemical Diversity Inspired by Biosynthesis: Rational Design of a Potent Epothilone Analogue. Organic Letters, 2009, 11, 3186-3189.	4.6	18
25	Isolating Tubulin from Nonneural Sources. Methods in Cell Biology, 2010, 95, 17-32.	1.1	18
26	Making drug design second nature. Nature Chemistry, 2009, 1, 596-597.	13.6	17
27	Targeting mitochondrial hexokinases increases efficacy of histone deacetylase inhibitors in solid tumor models. Experimental Cell Research, 2019, 375, 106-112.	2.6	15
28	A â€œMethyl Extensionâ€•Strategy for Polyketide Natural Product Linker Site Validation and Its Application to Dictyostatin. Journal of the American Chemical Society, 2015, 137, 14047-14050.	13.7	14
29	Tubulin Dimer Reversible Dissociation. Journal of Biological Chemistry, 2016, 291, 9281-9294.	3.4	13
30	All tubulins are not alike: Heterodimer dissociation differs among different biological sources. Journal of Biological Chemistry, 2019, 294, 10315-10324.	3.4	13
31	Use of Small-Angle Neutron Scattering To Study Tubulin Polymers. Biomacromolecules, 2003, 4, 461-467.	5.4	9
32	Conformational changes in tubulin upon binding cryptophycin-52 reveal its mechanism of action. Journal of Biological Chemistry, 2021, 297, 101138.	3.4	8
33	Design and 22-step synthesis of highly potent D-ring modified and linker-equipped analogs of spongistatin 1. Nature Communications, 2018, 9, 4710.	12.8	7
34	N⁵â€(<scp>L</scp>â€1â€carboxyethyl)â€Lâ€ornithine synthase: Physical and spectral characterization of the enzyme and its unusual low pK_a fluorescent tyrosine residues. Protein Science, 1999, 8, 2121-2129.	7.6	6
35	An inexpensive replacement for dry ice in the laboratory. Analytical Biochemistry, 2015, 474, 38-39.	2.4	6
36	Colcemid-resistant mutants of fission yeast have an altered cell cycle. Experimental Cell Research, 1986, 163, 467-476.	2.6	5

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37	Synthesis and Evaluation of a Linkable Functional Group-Equipped Analogue of the Epothilones. ACS Medicinal Chemistry Letters, 2017, 8, 701-704.	2.8	4
38	Intracellular imaging of metmyoglobin and oxygen using new dual purpose probe EYFPâ€Myoglobinâ€mCherry. Journal of Biophotonics, 2021, , e202100166.	2.3	4
39	Interaction of Colchicine-Site Ligands With the Blood Cell-Specific Isotype of Î²-Tubulinâ€"Notable Affinity for Benzimidazoles. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	4
40	Antimicrotubule Agents That Bind Covalently to Tubulin. , 2008, , 281-306.		3
41	STAQ: A route toward low power, Multicolor nanoscopy. Microscopy Research and Technique, 2015, 78, 343-355.	2.2	3
42	A simple empirical algorithm for optimising depletion power and resolution for dye and system specific STED imaging. Journal of Microscopy, 2019, 274, 168-176.	1.8	3
43	Taurine Is Covalently Incorporated into Alpha-Tubulin. Journal of Proteome Research, 2020, 19, 3184-3190.	3.7	3
44	Synthesis and Biological Evaluation of 7-Deoxy-Epothilone Analogues. International Journal of Molecular Sciences, 2017, 18, 648.	4.1	2
45	Genetically encoded FRET probes for direct mapping and quantification of intracellular oxygenation level via fluorescence lifetime imaging. , 2019, 10882, .		2
46	A Histone Deacetylase Inhibitor Induces Acetyl-CoA Depletion Leading to Lethal Metabolic Stress in RAS-Pathway Activated Cells. Cancers, 2022, 14, 2643.	3.7	2
47	Ring Polymers of Tubulin Induced by Binding of Natural Antimitotic Peptides. Macromolecular Symposia, 2005, 219, 9-16.	0.7	1
48	Tubulin Monomer-Monomer Association is Less Influenced by the Solvent than Dimer-Dimer Association: Structure and Function of Tubulin Interaction Interfaces. Biophysical Journal, 2016, 110, 26a-27a.	0.5	1
49	Fluorescence lifetime imaging of metMyoglobin formation due to nitric oxide stress. , 2022, 11965, .		1
50	Probing the Hydrodynamic Behavior of Drug-Induced Tubulin Rings by Fluorescence Correlation Spectroscopy. Macromolecular Symposia, 2005, 227, 211-220.	0.7	0