

Dan L Sackett

List of Publications by Year in descending order

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Version: 2024-02-01

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	Fluorescence lifetime imaging of metMyoglobin formation due to nitric oxide stress. , 2022, 11965, .		1
2	Interaction of Colchicine-Site Ligands With the Blood Cell-Specific Isoform of β -Tubulin: Notable Affinity for Benzimidazoles. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	3.7	4
3	A Histone Deacetylase Inhibitor Induces Acetyl-CoA Depletion Leading to Lethal Metabolic Stress in RAS-Pathway Activated Cells. <i>Cancers</i> , 2022, 14, 2643.	3.7	2
4	Conformational changes in tubulin upon binding cryptophycin-52 reveal its mechanism of action. <i>Journal of Biological Chemistry</i> , 2021, 297, 101138.	3.4	8
5	Intracellular imaging of metmyoglobin and oxygen using new dual purpose probe EYFP-Myoglobin-mCherry. <i>Journal of Biophotonics</i> , 2021, , e202100166.	2.3	4
6	Single cell-based fluorescence lifetime imaging of intracellular oxygenation and metabolism. <i>Redox Biology</i> , 2020, 34, 101549.	9.0	31
7	Taurine Is Covalently Incorporated into Alpha-Tubulin. <i>Journal of Proteome Research</i> , 2020, 19, 3184-3190.	3.7	3
8	All tubulins are not alike: Heterodimer dissociation differs among different biological sources. <i>Journal of Biological Chemistry</i> , 2019, 294, 10315-10324.	3.4	13
9	A simple empirical algorithm for optimising depletion power and resolution for dye and system specific STED imaging. <i>Journal of Microscopy</i> , 2019, 274, 168-176.	1.8	3
10	Targeting mitochondrial hexokinases increases efficacy of histone deacetylase inhibitors in solid tumor models. <i>Experimental Cell Research</i> , 2019, 375, 106-112.	2.6	15
11	Genetically encoded FRET probes for direct mapping and quantification of intracellular oxygenation level via fluorescence lifetime imaging. , 2019, 10882, .		2
12	Design and 22-step synthesis of highly potent D-ring modified and linker-equipped analogs of spongistatin 1. <i>Nature Communications</i> , 2018, 9, 4710.	12.8	7
13	Synthesis and Evaluation of a Linkable Functional Group-Equipped Analogue of the Epothilones. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 701-704.	2.8	4
14	Synthesis and Biological Evaluation of 7-Deoxy-Epothilone Analogues. <i>International Journal of Molecular Sciences</i> , 2017, 18, 648.	4.1	2
15	Tubulin Dimer Reversible Dissociation. <i>Journal of Biological Chemistry</i> , 2016, 291, 9281-9294.	3.4	13
16	Tubulin Monomer-Monomer Association is Less Influenced by the Solvent than Dimer-Dimer Association: Structure and Function of Tubulin Interaction Interfaces. <i>Biophysical Journal</i> , 2016, 110, 26a-27a.	0.5	1
17	Effects of Anticancer Drugs on Chromosome Instability and New Clinical Implications for Tumor-Suppressing Therapies. <i>Cancer Research</i> , 2016, 76, 902-911.	0.9	60
18	STAQ: A route toward low power, Multicolor nanoscopy. <i>Microscopy Research and Technique</i> , 2015, 78, 343-355.	2.2	3

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19	Katanin Severing and Binding Microtubules Are Inhibited by Tubulin Carboxy Tails. <i>Biophysical Journal</i> , 2015, 109, 2546-2561.	0.5	49
20	Microtubule-targeting agents augment the toxicity of DNA-damaging agents by disrupting intracellular trafficking of DNA repair proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1571-1576.	7.1	148
21	An inexpensive replacement for dry ice in the laboratory. <i>Analytical Biochemistry</i> , 2015, 474, 38-39.	2.4	6
22	Detection of oxidative stress-induced carbonylation in live mammalian cells. <i>Free Radical Biology and Medicine</i> , 2015, 84, 11-21.	2.9	33
23	A "Methyl Extension" Strategy for Polyketide Natural Product Linker Site Validation and Its Application to Dictyostatin. <i>Journal of the American Chemical Society</i> , 2015, 137, 14047-14050.	13.7	14
24	Tubulin Tail Sequences and Post-translational Modifications Regulate Closure of Mitochondrial Voltage-dependent Anion Channel (VDAC). <i>Journal of Biological Chemistry</i> , 2015, 290, 26784-26789.	3.4	29
25	Measurement of In Vitro Microtubule Polymerization by Turbidity and Fluorescence. <i>Methods in Cell Biology</i> , 2013, 115, 215-229.	1.1	23
26	Mutations in the β -tubulin binding site for peloruside A confer resistance by targeting a cleft significant in side chain binding. <i>Cell Cycle</i> , 2011, 10, 3387-3396.	2.6	23
27	Mitosis is not a key target of microtubule agents in patient tumors. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 244-250.	27.6	273
28	Isolating Tubulin from Nonneural Sources. <i>Methods in Cell Biology</i> , 2010, 95, 17-32.	1.1	18
29	Site-Specific Orthogonal Labeling of the Carboxy Terminus of β -Tubulin. <i>ACS Chemical Biology</i> , 2010, 5, 777-785.	3.4	46
30	Making drug design second nature. <i>Nature Chemistry</i> , 2009, 1, 596-597.	13.6	17
31	New Sources of Chemical Diversity Inspired by Biosynthesis: Rational Design of a Potent Epothilone Analogue. <i>Organic Letters</i> , 2009, 11, 3186-3189.	4.6	18
32	Evaluating reproducibility and similarity of mass and intensity data in complex spectra" applications to tubulin. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 367-374.	2.8	18
33	Antimicrotubule Agents That Bind Covalently to Tubulin. , 2008, , 281-306.		3
34	A Unique Mode of Microtubule Stabilization Induced by Peloruside A. <i>Journal of Molecular Biology</i> , 2008, 378, 1016-1030.	4.2	110
35	Tubulin binding blocks mitochondrial voltage-dependent anion channel and regulates respiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18746-18751.	7.1	312
36	Ring Polymers of Tubulin Induced by Binding of Natural Antimitotic Peptides. <i>Macromolecular Symposia</i> , 2005, 219, 9-16.	0.7	1

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37	Probing the Hydrodynamic Behavior of Drug-Induced Tubulin Rings by Fluorescence Correlation Spectroscopy. <i>Macromolecular Symposia</i> , 2005, 227, 211-220.	0.7	0
38	Inhibitors of Histone Deacetylases Alter Kinetochore Assembly by Disrupting Pericentromeric Heterochromatin. <i>Cell Cycle</i> , 2005, 4, 717-726.	2.6	105
39	Tumor Cells Resistant to a Microtubule-Depolymerizing Hemiasterlin Analogue, HTI-286, Have Mutations in β - or β -2-Tubulin and Increased Microtubule Stability. <i>Biochemistry</i> , 2004, 43, 13944-13954.	2.5	66
40	Use of Small-Angle Neutron Scattering To Study Tubulin Polymers. <i>Biomacromolecules</i> , 2003, 4, 461-467.	5.4	9
41	The Cryptophycin β -Tubulin Ring Structure Indicates Two Points of Curvature in the Tubulin Dimer. <i>Biochemistry</i> , 2002, 41, 12662-12669.	2.5	36
42	p53 is associated with cellular microtubules and is transported to the nucleus by dynein. <i>Nature Cell Biology</i> , 2000, 2, 709-717.	10.3	335
43	N ⁵ -methyl-L-lysine(4-carboxyethyl)-L-cornithine synthase: Physical and spectral characterization of the enzyme and its unusual low p <i>K_a</i> fluorescent tyrosine residues. <i>Protein Science</i> , 1999, 8, 2121-2129.	7.6	6
44	Paclitaxel-resistant Human Ovarian Cancer Cells Have Mutant β -Tubulins That Exhibit Impaired Paclitaxel-driven Polymerization. <i>Journal of Biological Chemistry</i> , 1997, 272, 17118-17125.	3.4	604
45	Cation selective promotion of tubulin polymerization by alkali metal chlorides. <i>Protein Science</i> , 1996, 5, 2020-2028.	7.6	64
46	Structure and Function in the Tubulin Dimer and the Role of the Acidic Carboxyl Terminus. <i>Sub-Cellular Biochemistry</i> , 1995, 24, 255-302.	2.4	41
47	Local Unfolding and the Stepwise Loss of the Functional Properties of Tubulin. <i>Biochemistry</i> , 1994, 33, 12868-12878.	2.5	39
48	Isolation of microtubule protein from mammalian brain frozen for extended periods of time. <i>Protein Expression and Purification</i> , 1991, 2, 390-393.	1.3	37
49	Thermodynamics of reversible monomer-dimer association of tubulin. <i>Biochemistry</i> , 1991, 30, 3511-3517.	2.5	47
50	Colcemid-resistant mutants of fission yeast have an altered cell cycle. <i>Experimental Cell Research</i> , 1986, 163, 467-476.	2.6	5