

JosÃ© Manuel Andreu

List of Publications by Year in descending order

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40
papers

2,833
citations

186265

28
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302126

39
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42
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42
docs citations

42
times ranked

2189
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly of purified GDP-tubulin into microtubules induced by taxol and taxotere: Reversibility, ligand stoichiometry, and competition. <i>Biochemistry</i> , 1993, 32, 2747-2755.	2.5	410
2	Magnesium-induced Linear Self-association of the FtsZ Bacterial Cell Division Protein Monomer. <i>Journal of Biological Chemistry</i> , 2000, 275, 11740-11749.	3.4	173
3	Essential Cell Division Protein FtsZ Assembles into One Monomer-thick Ribbons under Conditions Resembling the Crowded Intracellular Environment. <i>Journal of Biological Chemistry</i> , 2003, 278, 37664-37671.	3.4	164
4	Interaction of tubulin with single ring analogs of colchicine. <i>Biochemistry</i> , 1982, 21, 534-543.	2.5	156
5	Conformational states of tubulin liganded to colchicine, tropolone methyl ether, and podophyllotoxin. <i>Biochemistry</i> , 1982, 21, 6465-6476.	2.5	156
6	Cyclostreptin binds covalently to microtubule pores and luminal taxoid binding sites. , 2007, 3, 117-125.		130
7	Fast Kinetics of Taxol Binding to Microtubules. <i>Journal of Biological Chemistry</i> , 2003, 278, 8407-8419.	3.4	118
8	Energetics and Geometry of FtsZ Polymers: Nucleated Self-Assembly of Single Protofilaments. <i>Biophysical Journal</i> , 2008, 94, 1796-1806.	0.5	100
9	Thermodynamics of ligand-induced assembly of tubulin. <i>Biochemistry</i> , 1993, 32, 10067-10077.	2.5	99
10	A Polymerization-Associated Structural Switch in FtsZ That Enables Treadmilling of Model Filaments. <i>MBio</i> , 2017, 8, .	4.1	91
11	[5] The measurement of cooperative protein self-assembly by turbidity and other techniques. <i>Methods in Enzymology</i> , 1986, 130, 47-59.	1.0	78
12	Polymerization of the tubulin-colchicine complex: relation to microtubule assembly. <i>Biochemistry</i> , 1983, 22, 1556-1566.	2.5	76
13	Probing FtsZ and Tubulin with C8-Substituted GTP Analogs Reveals Differences in Their Nucleotide Binding Sites. <i>Chemistry and Biology</i> , 2008, 15, 189-199.	6.0	74
14	Optimization of Taxane Binding to Microtubules: Binding Affinity Dissection and Incremental Construction of a High-Affinity Analog of Paclitaxel. <i>Chemistry and Biology</i> , 2008, 15, 573-585.	6.0	68
15	The Interactions of Cell Division Protein FtsZ with Guanine Nucleotides. <i>Journal of Biological Chemistry</i> , 2007, 282, 37515-37528.	3.4	65
16	NMR Determination of the Bioactive Conformation of Peloruside A Bound To Microtubules. <i>Journal of the American Chemical Society</i> , 2006, 128, 8757-8765.	13.7	62
17	The Bound Conformation of Microtubule-€Stabilizing Agents: NMR Insights into the Bioactive 3D Structure of Discodermolide and Dictyostatin. <i>Chemistry - A European Journal</i> , 2008, 14, 7557-7569.	3.3	62
18	Membrane Adenosine Triphosphatase of <i>Micrococcus lysodeikticus</i> . Molecular Properties of the Purified Enzyme Unstimulated by Trypsin. <i>FEBS Journal</i> , 1973, 37, 505-515.	0.2	61

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19	Tau Induces Ring and Microtubule Formation from β -Tubulin Dimers under Nonassembly Conditions. <i>Biochemistry</i> , 2004, 43, 10520-10531.	2.5	58
20	Triazolopyrimidines Are Microtubule-Stabilizing Agents that Bind the Vinca Inhibitor Site of Tubulin. <i>Cell Chemical Biology</i> , 2017, 24, 737-750.e6.	5.2	58
21	Polymerization of nucleotide-free, GDP- and GTP-bound cell division protein FtsZ: GDP makes the difference. <i>FEBS Letters</i> , 2004, 569, 43-48.	2.8	56
22	Activation of Cell Division Protein FtsZ. <i>Journal of Biological Chemistry</i> , 2001, 276, 17307-17315.	3.4	53
23	Energetics of the Cooperative Assembly of Cell Division Protein FtsZ and the Nucleotide Hydrolysis Switch. <i>Journal of Biological Chemistry</i> , 2003, 278, 46146-46154.	3.4	48
24	Insights into the Interaction of Discodermolide and Docetaxel with Tubulin. Mapping the Binding Sites of Microtubule-Stabilizing Agents by Using an Integrated NMR and Computational Approach. <i>ACS Chemical Biology</i> , 2011, 6, 789-799.	3.4	46
25	Macromolecular Accessibility of Fluorescent Taxoids Bound at a Paclitaxel Binding Site in the Microtubule Surface. <i>Journal of Biological Chemistry</i> , 2005, 280, 3928-3937.	3.4	44
26	Reversible Unfolding of FtsZ Cell Division Proteins from Archaea and Bacteria. <i>Journal of Biological Chemistry</i> , 2002, 277, 43262-43270.	3.4	37
27	Large Scale Purification of Brain Tubulin With the Modified Weisenberg Procedure. <i>Methods in Molecular Medicine</i> , 2007, 137, 17-28.	0.8	37
28	Membrane adenosine triphosphatase of <i>Micrococcus lysodeikticus</i> . Isolation of two forms of the enzyme complex and correlation between enzymatic stability, latency and activity. <i>Molecular and Cellular Biochemistry</i> , 1976, 10, 67-76.	3.1	33
29	Farnesyltransferase Inhibitors Reverse Taxane Resistance. <i>Cancer Research</i> , 2006, 66, 8838-8846.	0.9	32
30	A synchrotron x-ray scattering characterization of purified tubulin and of its expansion induced by mild detergent binding. <i>Biochemistry</i> , 1989, 28, 4036-4040.	2.5	30
31	Modulation of Microtubule Interprotofilament Interactions by Modified Taxanes. <i>Biophysical Journal</i> , 2011, 101, 2970-2980.	0.5	28
32	Understanding Nucleotide-Regulated FtsZ Filament Dynamics and the Monomer Assembly Switch with Large-Scale Atomistic Simulations. <i>Biophysical Journal</i> , 2014, 107, 2164-2176.	0.5	25
33	Isolation and partial characterization of the two major subunits of the BF1 factor (ATPase) from <i>Micrococcus lysodeikticus</i> and evidence for their glycoprotein nature. <i>FEBS Letters</i> , 1976, 65, 198-203.	2.8	23
34	Tubulin-Colchicine Interactions and Polymerization of the Complex. <i>Annals of the New York Academy of Sciences</i> , 1986, 466, 676-689.	3.8	19
35	Cyclostreptin Derivatives Specifically Target Cellular Tubulin and Further Map the Paclitaxel Site. <i>Biochemistry</i> , 2012, 51, 329-341.	2.5	17
36	Binding of gossypol to purified tubulin and inhibition of its assembly into microtubules. <i>FEBS Journal</i> , 1986, 158, 63-69.	0.2	16

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37	The interactions of tropolone with magnesium ions and tubulin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1982, 714, 373-377.	2.4	12
38	Hydrophobic Interactions of Tubulin. <i>Annals of the New York Academy of Sciences</i> , 1986, 466, 626-630.	3.8	7
39	Chemically synthesized 182-235 segment of tau protein and analogue peptides are efficient in vitro microtubule assembly inducers of low apparent sequence specificity. <i>FEBS Letters</i> , 1992, 311, 235-240.	2.8	6
40	Fast mixing device for time-resolved synchrotron x-ray scattering studies of radiation sensitive proteins. <i>Review of Scientific Instruments</i> , 1998, 69, 286-289.	1.3	2