JosÃ© Manuel Andreu

List of Publications by Year
in descending order

40 papers	2,833 citations	186254 28 h-index	302107 39 g-index
42 all docs	42 docs citations	42 times ranked	2189 citing authors

#	Article	IF	Citations
1	A Polymerization-Associated Structural Switch in FtsZ That Enables Treadmilling of Model Filaments. MBio, 2017, 8, .	4.1	91
2	Triazolopyrimidines Are Microtubule-Stabilizing Agents that Bind the Vinca Inhibitor Site of Tubulin. Cell Chemical Biology, 2017, 24, 737-750.e6.	5.2	58
3	Understanding Nucleotide-Regulated FtsZ Filament Dynamics and the Monomer Assembly Switch with Large-Scale Atomistic Simulations. Biophysical Journal, 2014, 107, 2164-2176.	0.5	25
4	Cyclostreptin Derivatives Specifically Target Cellular Tubulin and Further Map the Paclitaxel Site. Biochemistry, 2012, 51, 329-341.	2.5	17
5	Modulation of Microtubule Interprotofilament Interactions by Modified Taxanes. Biophysical Journal, 2011, 101, 2970-2980.	0.5	28
6	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. ACS Chemical Biology, 2011, 6, 789-799.	3.4	46
7	The Bound Conformation of Microtubuleâ€Stabilizing Agents: NMR Insights into the Bioactive 3D Structure of Discodermolide and Dictyostatin. Chemistry - A European Journal, 2008, 14, 7557-7569.	3.3	62
8	Probing FtsZ and Tubulin with C8-Substituted GTP Analogs Reveals Differences in Their Nucleotide Binding Sites. Chemistry and Biology, 2008, 15, 189-199.	6.0	74
9	Optimization of Taxane Binding to Microtubules: Binding Affinity Dissection and Incremental Construction of a High-Affinity Analog of Paclitaxel. Chemistry and Biology, 2008, 15, 573-585.	6.0	68
10	Energetics and Geometry of FtsZ Polymers: Nucleated Self-Assembly of Single Protofilaments. Biophysical Journal, 2008, 94, 1796-1806.	0.5	100
11	The Interactions of Cell Division Protein FtsZ with Guanine Nucleotides. Journal of Biological Chemistry, 2007, 282, 37515-37528.	3.4	65
12	Large Scale Purification of Brain Tubulin With the Modified Weisenberg Procedure. Methods in Molecular Medicine, 2007, 137, 17-28.	0.8	37
13	Cyclostreptin binds covalently to microtubule pores and lumenal taxoid binding sites. , 2007, 3, 117-125.		130
14	NMR Determination of the Bioactive Conformation of Peloruside A Bound To Microtubules. Journal of the American Chemical Society, 2006, 128, 8757-8765.	13.7	62
15	Farnesyltransferase Inhibitors Reverse Taxane Resistance. Cancer Research, 2006, 66, 8838-8846.	0.9	32
16	Macromolecular Accessibility of Fluorescent Taxoids Bound at a Paclitaxel Binding Site in the Microtubule Surface. Journal of Biological Chemistry, 2005, 280, 3928-3937.	3.4	44
17	Tau Induces Ring and Microtubule Formation from Î±Î²-Tubulin Dimers under Nonassembly Conditionsâ€. Biochemistry, 2004, 43, 10520-10531.	2.5	58
18	Polymerization of nucleotide-free, GDP- and GTP-bound cell division protein FtsZ: GDP makes the difference. FEBS Letters, 2004, 569, 43-48.	2.8	56

#	Article	IF	Citations
19	Essential Cell Division Protein FtsZ Assembles into One Monomer-thick Ribbons under Conditions Resembling the Crowded Intracellular Environment. Journal of Biological Chemistry, 2003, 278, 37664-37671.	3.4	164
20	Energetics of the Cooperative Assembly of Cell Division Protein FtsZ and the Nucleotide Hydrolysis Switch. Journal of Biological Chemistry, 2003, 278, 46146-46154.	3.4	48
21	Fast Kinetics of Taxol Binding to Microtubules. Journal of Biological Chemistry, 2003, 278, 8407-8419.	3.4	118
22	Reversible Unfolding of FtsZ Cell Division Proteins from Archaea and Bacteria. Journal of Biological Chemistry, 2002, 277, 43262-43270.	3.4	37
23	Activation of Cell Division Protein FtsZ. Journal of Biological Chemistry, 2001, 276, 17307-17315.	3.4	53
24	Magnesium-induced Linear Self-association of the FtsZ Bacterial Cell Division Protein Monomer. Journal of Biological Chemistry, 2000, 275, 11740-11749.	3.4	173
25	Fast mixing device for time-resolved synchrotron x-ray scattering studies of radiation sensitive proteins. Review of Scientific Instruments, 1998, 69, 286-289.	1.3	2
26	Thermodynamics of ligand-induced assembly of tubulin. Biochemistry, 1993, 32, 10067-10077.	2.5	99
27	Assembly of purified GDP-tubulin into microtubules induced by taxol and taxotere: Reversibility, ligand stoichiometry, and competition. Biochemistry, 1993, 32, 2747-2755.	2.5	410
28	Chemically synthesized 182-235 segment of tau protein and analogue peptides are efficient in vitro microtubule assembly inducers of low apparent sequence specificity. FEBS Letters, 1992, 311, 235-240.	2.8	6
29	A synchrotron x-ray scattering characterization of purified tubulin and of its expansion induced by mild detergent binding. Biochemistry, 1989, 28, 4036-4040.	2.5	30
30	Hydrophobic Interactions of Tubulin. Annals of the New York Academy of Sciences, 1986, 466, 626-630.	3.8	7
31	Tubulin-Colchicine Interactions and Polymerization of the Complex. Annals of the New York Academy of Sciences, 1986, 466, 676-689.	3.8	19
32	[5] The measurement of cooperative protein self-assembly by turbidity and other techniques. Methods in Enzymology, 1986, 130, 47-59.	1.0	78
33	Binding of gossypol to purified tubulin and inhibition of its assembly into microtubules. FEBS Journal, 1986, 158, 63-69.	0.2	16
34	Polymerization of the tubulin-colchicine complex: relation to microtubule assembly. Biochemistry, 1983, 22, 1556-1566.	2.5	76
35	The interactions of tropolone with magnesium ions and tubulin. Biochimica Et Biophysica Acta - General Subjects, 1982, 714, 373-377.	2.4	12
36	Interaction of tubulin with single ring analogs of colchicine. Biochemistry, 1982, 21, 534-543.	2.5	156

#	Article	IF	Citations
37	Conformational states of tubulin liganded to colchicine, tropolone methyl ether, and podophyllotoxin. Biochemistry, 1982, 21, 6465-6476.	2.5	156
38	Isolation and partial characterization of the two major subunits of the BF1factor (ATPase) fromMicrococcus lysodeikticusand evidence for their glycoprotein nature. FEBS Letters, 1976, 65, 198-203.	2.8	23
39	Membrane adenosine triphosphatase of Micrococcus lysodeikticus. Isolation of two forms of the enzyme complex and correlation between enzymatic stability, latency and activity.. Molecular and Cellular Biochemistry, 1976, 10, 67-76.	3.1	33
40	Membrane Adenosine Triphosphatase of Micrococcus lysodeikticus. Molecular Properties of the Purified Enzyme Unstimulated by Trypsin. FEBS Journal, 1973, 37, 505-515.	0.2	61