

Jose M Andreu

List of Publications by Year in descending order

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104
papers

6,130
citations

47006

47
h-index

74163

75
g-index

108
all docs

108
docs citations

108
times ranked

5190
citing authors

#	ARTICLE	IF	CITATIONS
1	FtsZ filament structures in different nucleotide states reveal the mechanism of assembly dynamics. <i>PLoS Biology</i> , 2022, 20, e3001497.	5.6	11
2	Targeting the FtsZ Allosteric Binding Site with a Novel Fluorescence Polarization Screen, Cytological and Structural Approaches for Antibacterial Discovery. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 5730-5745.	6.4	11
3	How Protein Filaments Treadmill. <i>Biophysical Journal</i> , 2020, 119, 717-720.	0.5	3
4	Nucleotide-induced folding of cell division protein FtsZ from <i>Staphylococcus aureus</i> . <i>FEBS Journal</i> , 2020, 287, 4048-4067.	4.7	15
5	Synthetic developmental regulator MciZ targets FtsZ across <i>Bacillus</i> species and inhibits bacterial division. <i>Molecular Microbiology</i> , 2019, 111, 965-980.	2.5	16
6	Zampanolide Binding to Tubulin Indicates Cross-Talk of Taxane Site with Colchicine and Nucleotide Sites. <i>Journal of Natural Products</i> , 2018, 81, 494-505.	3.0	15
7	Self-Organization of FtsZ Polymers in Solution Reveals Spacer Role of the Disordered C-Terminal Tail. <i>Biophysical Journal</i> , 2017, 113, 1831-1844.	0.5	35
8	The structural assembly switch of cell division protein FtsZ probed with fluorescent allosteric inhibitors. <i>Chemical Science</i> , 2017, 8, 1525-1534.	7.4	33
9	Cytological Profile of Antibacterial FtsZ Inhibitors and Synthetic Peptide MciZ. <i>Frontiers in Microbiology</i> , 2016, 7, 1558.	3.5	39
10	Beyond a Fluorescent Probe: Inhibition of Cell Division Protein FtsZ by <i>mant</i> -GTP Elucidated by NMR and Biochemical Approaches. <i>ACS Chemical Biology</i> , 2015, 10, 2382-2392.	3.4	9
11	Effective GTP-Replacing FtsZ Inhibitors and Antibacterial Mechanism of Action. <i>ACS Chemical Biology</i> , 2015, 10, 834-843.	3.4	25
12	A new tubulin-binding site and pharmacophore for microtubule-destabilizing anticancer drugs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13817-13821.	7.1	229
13	Molecular Recognition of Epothilones by Microtubules and Tubulin Dimers Revealed by Biochemical and NMR Approaches. <i>ACS Chemical Biology</i> , 2014, 9, 1033-1043.	3.4	30
14	Bacterial cell division proteins as antibiotic targets. <i>Bioorganic Chemistry</i> , 2014, 55, 27-38.	4.1	69
15	PM060184, a new tubulin binding agent with potent antitumor activity including P-glycoprotein over-expressing tumors. <i>Biochemical Pharmacology</i> , 2014, 88, 291-302.	4.4	49
16	Chrysopaentins are competitive inhibitors of FtsZ and inhibit Z-ring formation in live bacteria. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 5673-5678.	3.0	47
17	Purification and Assembly of Bacterial Tubulin BtubA/B and Constructs Bearing Eukaryotic Tubulin Sequences. <i>Methods in Cell Biology</i> , 2013, 115, 269-281.	1.1	4
18	Synthetic Inhibitors of Bacterial Cell Division Targeting the GTP-Binding Site of FtsZ. <i>ACS Chemical Biology</i> , 2013, 8, 2072-2083.	3.4	52

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19	Endowing Indole-Based Tubulin Inhibitors with an Anchor for Derivatization: Highly Potent 3-Substituted Indolephenstatins and Indoleisocombretastatins. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2813-2827.	6.4	62
20	Interactions of Bacterial Cell Division Protein FtsZ with C8-Substituted Guanine Nucleotide Inhibitors. A Combined NMR, Biochemical and Molecular Modeling Perspective. <i>Journal of the American Chemical Society</i> , 2013, 135, 16418-16428.	13.7	28
21	New Interfacial Microtubule Inhibitors of Marine Origin, PM050489/PM060184, with Potent Antitumor Activity and a Distinct Mechanism. <i>ACS Chemical Biology</i> , 2013, 8, 2084-2094.	3.4	57
22	Tubulin homolog TubZ in a phage-encoded partition system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7711-7716.	7.1	54
23	Self assembly of human septin 2 into amyloid filaments. <i>Biochimie</i> , 2012, 94, 628-636.	2.6	22
24	Synthesis and Antimitotic and Tubulin Interaction Profiles of Novel Pinacol Derivatives of Podophyllotoxins. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6724-6737.	6.4	77
25	Targeting the Assembly of Bacterial Cell Division Protein FtsZ with Small Molecules. <i>ACS Chemical Biology</i> , 2012, 7, 269-277.	3.4	107
26	Septin C-Terminal Domain Interactions: Implications for Filament Stability and Assembly. <i>Cell Biochemistry and Biophysics</i> , 2012, 62, 317-328.	1.8	40
27	Modulation of Microtubule Interprotofilament Interactions by Modified Taxanes. <i>Biophysical Journal</i> , 2011, 101, 2970-2980.	0.5	28
28	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
29	Bacterial Tubulin Distinct Loop Sequences and Primitive Assembly Properties Support Its Origin from a Eukaryotic Tubulin Ancestor. <i>Journal of Biological Chemistry</i> , 2011, 286, 19789-19803.	3.4	35
30	Interconversion of catalytic abilities in a bifunctional carboxyl/feruloyl esterase from earthworm gut metagenome. <i>Microbial Biotechnology</i> , 2010, 3, 48-58.	4.2	15
31	Probing the Pore Drug Binding Site of Microtubules with Fluorescent Taxanes: Evidence of Two Binding Poses. <i>Chemistry and Biology</i> , 2010, 17, 243-253.	6.0	21
32	Mapping Flexibility and the Assembly Switch of Cell Division Protein FtsZ by Computational and Mutational Approaches. <i>Journal of Biological Chemistry</i> , 2010, 285, 22554-22565.	3.4	44
33	Fluorescent Taxoid Probes for Microtubule Research. <i>Methods in Cell Biology</i> , 2010, 95, 353-372.	1.1	17
34	The Antibacterial Cell Division Inhibitor PC190723 Is an FtsZ Polymer-stabilizing Agent That Induces Filament Assembly and Condensation. <i>Journal of Biological Chemistry</i> , 2010, 285, 14239-14246.	3.4	152
35	Stathmin and Interfacial Microtubule Inhibitors Recognize a Naturally Curved Conformation of Tubulin Dimers. <i>Journal of Biological Chemistry</i> , 2010, 285, 31672-31681.	3.4	91
36	Insights into Nucleotide Recognition by Cell Division Protein FtsZ from a <i>mant</i> -GTP Competition Assay and Molecular Dynamics. <i>Biochemistry</i> , 2010, 49, 10458-10472.	2.5	45

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37	3-Hydroxyphenylpropionate and Phenylpropionate Are Synergistic Activators of the MhpR Transcriptional Regulator from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 21218-21228.	3.4	28
38	Possible binding site for paclitaxel at microtubule pores. <i>FEBS Journal</i> , 2009, 276, 2701-2712.	4.7	33
39	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
40	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
41	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
42	Energetics and Geometry of FtsZ Polymers: Nucleated Self-Assembly of Single Protofilaments. <i>Biophysical Journal</i> , 2008, 94, 1796-1806.	0.5	100
43	A purple acidophilic di-ferric DNA ligase from <i>Ferroplasma</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8878-8883.	7.1	27
44	The Interactions of Cell Division Protein FtsZ with Guanine Nucleotides. <i>Journal of Biological Chemistry</i> , 2007, 282, 37515-37528.	3.4	65
45	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
46	Novel Polyphenol Oxidase Mined from a Metagenome Expression Library of Bovine Rumen. <i>Journal of Biological Chemistry</i> , 2006, 281, 22933-22942.	3.4	168
47	The Nucleotide Switch of Tubulin and Microtubule Assembly: A Polymerization-Driven Structural Change. <i>Biochemistry</i> , 2006, 45, 5933-5938.	2.5	94
48	Farnesyltransferase Inhibitors Reverse Taxane Resistance. <i>Cancer Research</i> , 2006, 66, 8838-8846.	0.9	32
49	Microtubule Interactions with Chemically Diverse Stabilizing Agents: Thermodynamics of Binding to the Paclitaxel Site Predicts Cytotoxicity. <i>Chemistry and Biology</i> , 2005, 12, 1269-1279.	6.0	212
50	Structure of bacterial tubulin BtubA/B: Evidence for horizontal gene transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9170-9175.	7.1	141
51	Folding, Stability and Polymerization Properties of FtsZ Chimeras with Inserted Tubulin Loops Involved in the Interaction with the Cytosolic Chaperonin CCT and in Microtubule Formation. <i>Journal of Molecular Biology</i> , 2005, 346, 319-330.	4.2	13
52	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
53	FtsZ folding, self-association, activation and assembly. , 2004, , 133-153.		1
54	Peloruside A Does Not Bind to the Taxoid Site on β -Tubulin and Retains Its Activity in Multidrug-Resistant Cell Lines. <i>Cancer Research</i> , 2004, 64, 5063-5067.	0.9	191

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55	Interaction of Epothilone Analogs with the Paclitaxel Binding Site. <i>Chemistry and Biology</i> , 2004, 11, 225-236.	6.0	47
56	Structural Stability of the PsbQ Protein of Higher Plant Photosystem II. <i>Biochemistry</i> , 2004, 43, 14171-14179.	2.5	4
57	Interaction of Epothilone Analogs with the Paclitaxel Binding Site Relationship between Binding Affinity, Microtubule Stabilization, and Cytotoxicity. <i>Chemistry and Biology</i> , 2004, 11, 225-236.	6.0	39
58	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
59	Non-cytotoxic variants of the Kid protein that retain their auto-regulatory activity. <i>Plasmid</i> , 2003, 50, 120-130.	1.4	16
60	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
61	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
62	Fast Kinetics of Taxol Binding to Microtubules. <i>Journal of Biological Chemistry</i> , 2003, 278, 8407-8419.	3.4	118
63	Assembly of Archaeal Cell Division Protein FtsZ and a GTPase-inactive Mutant into Double-stranded Filaments. <i>Journal of Biological Chemistry</i> , 2003, 278, 33562-33570.	3.4	86
64	Taxanes: Microtubule and Centrosome Targets, and Cell Cycle Dependent Mechanisms of Action. <i>Current Cancer Drug Targets</i> , 2003, 3, 193-203.	1.6	318
65	Reversible Unfolding of FtsZ Cell Division Proteins from Archaea and Bacteria. <i>Journal of Biological Chemistry</i> , 2002, 277, 43262-43270.	3.4	37
66	The Microtubule Stabilizing Agent Laulimalide Does Not Bind in the Taxoid Site, Kills Cells Resistant to Paclitaxel and Epothilones, and May Not Require Its Epoxide Moiety for Activity. <i>Biochemistry</i> , 2002, 41, 9109-9115.	2.5	231
67	Urea-induced unfolding studies of free- and ligand-bound tetrameric ATP-dependent <i>Saccharomyces cerevisiae</i> phosphoenolpyruvate carboxykinase. <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 645-656.	2.8	6
68	Chemical synthesis and biological evaluation of novel epothilone B and trans-12,13-cyclopropyl epothilone B analogues. <i>Tetrahedron</i> , 2002, 58, 6413-6432.	1.9	57
69	The Interaction of Baccatin III with the Taxol Binding Site of Microtubules Determined by a Homogeneous Assay with Fluorescent Taxoid. <i>Biochemistry</i> , 2001, 40, 11975-11984.	2.5	73
70	Centrosome and spindle pole microtubules are main targets of a fluorescent taxoid inducing cell death. <i>Cytoskeleton</i> , 2001, 49, 1-15.	4.4	37
71	Activation of Cell Division Protein FtsZ. <i>Journal of Biological Chemistry</i> , 2001, 276, 17307-17315.	3.4	53
72	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

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73	Molecular Recognition of Taxol by Microtubules. <i>Journal of Biological Chemistry</i> , 2000, 275, 26265-26276.	3.4	116
74	Reconstruction of protein form with X-ray solution scattering and a genetic algorithm. <i>Journal of Molecular Biology</i> , 2000, 299, 1289-1302.	4.2	136
75	Identification of β III- and β IV-tubulin isotypes in cold-adapted microtubules from Atlantic cod (<i>Gadus</i>) Tj ETQq1 1 0.784314 rgBT /Over 4.4 13	4.4	13
76	Helicity of β 1(404-451) and β 2(394-445) tubulin C-terminal recombinant peptides. <i>Protein Science</i> , 1999, 8, 788-799.	7.6	34
77	Protein domains and conformational changes in the activation of RepA, a DNA replication initiator. <i>EMBO Journal</i> , 1998, 17, 4511-4526.	7.8	63
78	Effect of 2-OH acetylation on the bioactivity and conformation of 7-O-[N-(4-fluoresceincarbonyl)-l-alanyl]taxol. A NMR-fluorescence microscopy study. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 1857-1863.	3.0	27
79	Stability of <i>Escherichia coli</i> phosphoenolpyruvate carboxykinase against urea-induced unfolding and ligand effects. <i>FEBS Journal</i> , 1998, 255, 439-445.	0.2	5
80	Fluorescent taxoids as probes of the microtubule cytoskeleton. <i>Cytoskeleton</i> , 1998, 39, 73-90.	4.4	72
81	Structural features of the plasmid pMV158-encoded transcriptional repressor CopG, a protein sharing similarities with both helix-turn-helix and β -sheet DNA binding proteins. , 1998, 32, 248-261.		12
82	Role of the Colchicine Ring A and Its Methoxy Groups in the Binding to Tubulin and Microtubule Inhibition. <i>Biochemistry</i> , 1998, 37, 8356-8368.	2.5	81
83	Changes in Microtubule Protofilament Number Induced by Taxol Binding to an Easily Accessible Site. <i>Journal of Biological Chemistry</i> , 1998, 273, 33803-33810.	3.4	104
84	Control of the Structural Stability of the Tubulin Dimer by One High Affinity Bound Magnesium Ion at Nucleotide N-site. <i>Journal of Biological Chemistry</i> , 1998, 273, 167-176.	3.4	79
85	Stoichiometric and Substoichiometric Inhibition of Tubulin Self-Assembly by Colchicine Analogues. <i>Biochemistry</i> , 1996, 35, 3277-3285.	2.5	26
86	Alterations of Rings B and C of Colchicine Are Cumulative in Overall Binding to Tubulin but Modify Each Kinetic Step. <i>Biochemistry</i> , 1996, 35, 15900-15906.	2.5	8
87	Tubulin Secondary Structure Analysis, Limited Proteolysis Sites, and Homology to FtsZ. <i>Biochemistry</i> , 1996, 35, 14203-14215.	2.5	61
88	Different Kinetic Pathways of the Binding of Two Biphenyl Analogues of Colchicine to Tubulin. <i>Biochemistry</i> , 1996, 35, 4387-4395.	2.5	24
89	Mapping Surface Sequences of the Tubulin Dimer and Taxol-Induced Microtubules with Limited Proteolysis. <i>Biochemistry</i> , 1996, 35, 14184-14202.	2.5	19
90	New Fluorescent Water-Soluble Taxol Derivatives. <i>Angewandte Chemie International Edition in English</i> , 1996, 34, 2710-2712.	4.4	50

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91	Solution Structure of GDP-tubulin Double Rings to 3 nm Resolution and Comparison with Microtubules. <i>Journal of Molecular Biology</i> , 1994, 238, 214-225.	4.2	69
92	Appendix: Hydrodynamic Analysis of Tubulin Dimer and Double Rings. <i>Journal of Molecular Biology</i> , 1994, 238, 223-225.	4.2	4
93	Roles of ring C oxygens in the binding of colchicine to tubulin. <i>Biochemistry</i> , 1991, 30, 3770-3777.	2.5	33
94	Mechanism of colchicine binding to tubulin. Tolerance of substituents in ring C' of biphenyl analogs. <i>Biochemistry</i> , 1991, 30, 3777-3786.	2.5	50
95	Thermal transitions in the structure of tubulin. <i>European Biophysics Journal</i> , 1991, 19, 295-300.	2.2	17
96	C-terminal cleavage of tubulin by subtilisin enhances ring formation. <i>Archives of Biochemistry and Biophysics</i> , 1990, 279, 328-337.	3.0	26
97	Roles of colchicine rings B and C in the binding process to tubulin. <i>Biochemistry</i> , 1989, 28, 5589-5599.	2.5	52
98	Reversible inhibition of microtubules and cell growth by the bicyclic colchicine analogue MTC. <i>Cytoskeleton</i> , 1987, 7, 178-186.	4.4	15
99	[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
100	Interaction of tubulin with bifunctional colchicine analogs: an equilibrium study. <i>Biochemistry</i> , 1984, 23, 1742-1752.	2.5	118
101	The ligand- and microtubule assembly-induced GTPase activity of purified calf brain tubulin. <i>Archives of Biochemistry and Biophysics</i> , 1981, 211, 151-157.	3.0	55
102	Substructure of F1-ATPase (BF1 factor) from <i>Micrococcus lysodeikticus</i> . <i>Molecular and Cellular Biochemistry</i> , 1980, 33, 3-12.	3.1	11
103	Glycoprotein nature of energy-transducing ATPases. <i>FEBS Letters</i> , 1978, 86, 1-5.	2.8	26
104	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