

J Fernando Daz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161 papers	6,164 citations	41 h-index	72 g-index
173 ext. papers	6,858 ext. citations	5.6 avg, IF	5.32 L-index

#	Paper	IF	Citations
161	Design and synthesis of multifunctional microtubule targeting agents endowed with dual pro-apoptotic and anti-autophagic efficacy.. <i>European Journal of Medicinal Chemistry</i> , 2022 , 235, 114274	6.8	0
160	Maytansinol Derivatives: Side Reactions as a Chance for New Tubulin Binders. <i>Chemistry - A European Journal</i> , 2021 , 28, e202103520	4.8	0
159	CLIP-170S is a microtubule-binding TIP variant that confers resistance to taxanes by impairing drug-target engagement. <i>Developmental Cell</i> , 2021 , 56, 3264-3275.e7	10.2	0
158	Structural and Functional Insights Into Skl and Pal Endolysins, Two Cysteine-Amidases With Anti-pneumococcal Activity. Dithiothreitol (DTT) Effect on Lytic Activity. <i>Frontiers in Microbiology</i> , 2021 , 12, 740914	5.7	0
157	Design, Synthesis, and in vitro Evaluation of Tubulin-Targeting Dibenzothiazines with Antiproliferative Activity as a Novel Heterocycle Building Block. <i>ChemMedChem</i> , 2021 , 16, 3003-3016	3.7	0
156	Synthesis of Morpholine-Based Analogues of (-)-Zampanolide and Their Biological Activity. <i>Chemistry - A European Journal</i> , 2021 , 27, 5936-5943	4.8	2
155	Gatorbulin-1, a distinct cyclodepsipeptide chemotype, targets a seventh tubulin pharmacological site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	15
154	Studies toward the Synthesis of an Oxazole-Based Analog of (-)-Zampanolide. <i>Organic Letters</i> , 2021 , 23, 2238-2242	6.2	3
153	Lattice defects induced by microtubule-stabilizing agents exert a long-range effect on microtubule growth by promoting catastrophes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
152	Synthesis of N-acyl Derivatives of Aminocombretastatin A-4 and Study of their Interaction with Tubulin and Downregulation of c-Myc. <i>Medicinal Chemistry</i> , 2021 , 17, 1129-1139	1.8	0
151	-alkylisatin-based microtubule destabilizers bind to the colchicine site on tubulin and retain efficacy in drug resistant acute lymphoblastic leukemia cell lines with less in vitro neurotoxicity. <i>Cancer Cell International</i> , 2020 , 20, 170	6.4	7
150	On the Importance of the Thiazole Nitrogen in Epothilones: Semisynthesis and Microtubule-Binding Affinity of Deaza-Epothilone C. <i>Chemistry</i> , 2020 , 2, 499-509	2.1	
149	Structural model for differential cap maturation at growing microtubule ends. <i>ELife</i> , 2020 , 9,	8.9	23
148	Taxanes convert regions of perturbed microtubule growth into rescue sites. <i>Nature Materials</i> , 2020 , 19, 355-365	27	22
147	A Method for the Stereoselective Construction of the Hemiaminal Center in Zampanolides. <i>Organic Letters</i> , 2020 , 22, 8345-8348	6.2	2
146	Structural Basis of Noscapine Activation for Tubulin Binding. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 8495-8501	8.3	17
145	Two Antagonistic Microtubule Targeting Drugs Act Synergistically to Kill Cancer Cells. <i>Cancers</i> , 2020 , 12,	6.6	3

144	Identification of the guanine nucleotide exchange factor for SAR1 in the filamentous fungal model <i>Aspergillus nidulans</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019 , 1866, 118551	4.9	3
143	Structure, Thermodynamics, and Kinetics of Plinabulin Binding to Two Tubulin Isotypes. <i>CheM</i> , 2019 , 5, 2969-2986	16.2	15
142	Diphenyl ether derivatives occupy the expanded binding site of cyclohexanedione compounds at the colchicine site in tubulin by movement of the β 5 loop. <i>European Journal of Medicinal Chemistry</i> , 2019 , 171, 195-208	6.8	4
141	Synthesis, Microtubule-Binding Affinity, and Antiproliferative Activity of New Epothilone Analogs and of an EGFR-Targeted Epothilone-Peptide Conjugate. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
140	Synthesis, Profiling, and Bioactive Conformation of trans-Cyclopropyl Epothilones. <i>Helvetica Chimica Acta</i> , 2019 , 102, e1900078	2	1
139	Crystal Structure of the Cyclostreptin-Tubulin Adduct: Implications for Tubulin Activation by Taxane-Site Ligands. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
138	enterotoxins tilimycin and tilivalline have distinct host DNA-damaging and microtubule-stabilizing activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3774-3783	11.5	30
137	Structural Basis of Colchicine-Site targeting Acylhydrazones active against Multidrug-Resistant Acute Lymphoblastic Leukemia. <i>IScience</i> , 2019 , 21, 95-109	6.1	2
136	Synthesis of Thicolchicine-Based Conjugates: Investigation towards Bivalent Tubulin/Microtubules Binders. <i>ChemPlusChem</i> , 2019 , 84, 98-102	2.8	6
135	Structure-activity relationships, biological evaluation and structural studies of novel pyrrolonaphthoxazepines as antitumor agents. <i>European Journal of Medicinal Chemistry</i> , 2019 , 162, 290-320	6.8	21
134	Conformational mimetics of the β -methyl chalcone TUB091 binding tubulin: Design, synthesis and antiproliferative activity. <i>European Journal of Medicinal Chemistry</i> , 2018 , 148, 337-348	6.8	13
133	Au@p4VP core@shell pH-sensitive nanocomposites suitable for drug entrapment. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 704-714	9.3	11
132	Gallic acid sensitizes paclitaxel-resistant human ovarian carcinoma cells through an increase in reactive oxygen species and subsequent downregulation of ERK activation. <i>Oncology Reports</i> , 2018 , 39, 3007-3014	3.5	14
131	High-affinity ligands of the colchicine domain in tubulin based on a structure-guided design. <i>Scientific Reports</i> , 2018 , 8, 4242	4.9	20
130	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	4.9	12
129	A fluorescence anisotropy assay to discover and characterize ligands targeting the maytansine site of tubulin. <i>Nature Communications</i> , 2018 , 9, 2106	17.4	27
128	Structural Basis of Microtubule Stabilization by Discodermolide. <i>ChemBioChem</i> , 2017 , 18, 905-909	3.8	21
127	Deconvolution of Buparlisib's mechanism of action defines specific PI3K and tubulin inhibitors for therapeutic intervention. <i>Nature Communications</i> , 2017 , 8, 14683	17.4	61

126	Insights into the Distinct Mechanisms of Action of Taxane and Non-Taxane Microtubule Stabilizers from Cryo-EM Structures. <i>Journal of Molecular Biology</i> , 2017 , 429, 633-646	6.5	107
125	Modification of C-seco taxoids through ring tethering and substituent replacement leading to effective agents against tumor drug resistance mediated by β -Tubulin and P-glycoprotein (P-gp) overexpressions. <i>European Journal of Medicinal Chemistry</i> , 2017 , 137, 488-503	6.8	10
124	Triazolopyrimidines Are Microtubule-Stabilizing Agents that Bind the Vinca Inhibitor Site of Tubulin. <i>Cell Chemical Biology</i> , 2017 , 24, 737-750.e6	8.2	43
123	Self-Organization of FtsZ Polymers in Solution Reveals Spacer Role of the Disordered C-Terminal Tail. <i>Biophysical Journal</i> , 2017 , 113, 1831-1844	2.9	24
122	Quinolin-6-Yloxyacetamides Are Microtubule Destabilizing Agents That Bind to the Colchicine Site of Tubulin. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	8
121	Identification of pyrrolopyrimidine derivative PP-13 as a novel microtubule-destabilizing agent with promising anticancer properties. <i>Scientific Reports</i> , 2017 , 7, 10209	4.9	9
120	Zampanolide, a Microtubule-Stabilizing Agent, Is Active in Resistant Cancer Cells and Inhibits Cell Migration. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	21
119	Antivascular and antitumor properties of the tubulin-binding chalcone TUB091. <i>Oncotarget</i> , 2017 , 8, 14325-14342	3.3	37
118	Aggregated Compound Biological Signatures Facilitate Phenotypic Drug Discovery and Target Elucidation. <i>ACS Chemical Biology</i> , 2016 , 11, 3024-3034	4.9	15
117	Synthesis and Anti-Proliferative Activity of Sulfanyltriazolynaphthalenols and Sulfanyltriazolynaphthalene-1,4-diones. <i>Archiv Der Pharmazie</i> , 2016 , 349, 749-61	4.3	4
116	Targeting the colchicine site in tubulin through cyclohexanedione derivatives. <i>RSC Advances</i> , 2016 , 6, 19492-19506	3.7	6
115	Synthesis, Biological Profiling and Determination of the Tubulin-Bound Conformation of 12-Aza-Epothilones (Azathilones). <i>Molecules</i> , 2016 , 21,	4.8	3
114	Pironetin Binds Covalently to Lys316 and Perturbs a Major Loop and Helix of β -Tubulin to Inhibit Microtubule Formation. <i>Journal of Molecular Biology</i> , 2016 , 428, 2981-8	6.5	48
113	Structural Determinants of the Dictyostatin Chemotype for Tubulin Binding Affinity and Antitumor Activity Against Taxane- and Epothilone-Resistant Cancer Cells. <i>ACS Omega</i> , 2016 , 1, 1192-1204	3.9	19
112	Structural and Biochemical Characterization of the Interaction of Tubulin with Potent Natural Analogues of Podophyllotoxin. <i>Journal of Natural Products</i> , 2016 , 79, 2113-21	4.9	17
111	Total Synthesis of Amphidinolide K, a Macrolide That Stabilizes F-Actin. <i>Journal of Organic Chemistry</i> , 2015 , 80, 8511-9	4.2	7
110	Synthesis, Characterization, and Application in HeLa Cells of an NIR Light Responsive Doxorubicin Delivery System Based on NaYF ₄ :Yb,Tm@SiO ₂ -PEG Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14992-9	9.5	37
109	TRAPP11 regulates exocytic Golgi exit by mediating nucleotide exchange on the Ypt31 ortholog RabERAB11. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4346-51	11.5	43

108	High affinity and covalent-binding microtubule stabilizing agents show activity in chemotherapy-resistant acute myeloid leukemia cells. <i>Cancer Letters</i> , 2015 , 368, 97-104	9.9	9
107	The Mechanism of the Interactions of Pironetin Analog/Combretastatin A-4 Hybrids with Tubulin. <i>Archiv Der Pharmazie</i> , 2015 , 348, 541-7	4.3	6
106	Cytotoxic Activity and Chemical Composition of the Root Extract from the Mexican Species <i>Linum scabrellum</i> : Mechanism of Action of the Active Compound 6-Methoxypodophyllotoxin. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015 , 2015, 298463	2.3	6
105	Restoration of Microtubule Interaction and Cytotoxicity in D-seco Taxanes upon Incorporation of 20-Hydroxymethyl-4-allyloxy Groups. <i>Organic Letters</i> , 2015 , 17, 6098-101	6.2	6
104	Structural basis of microtubule stabilization by laulimalide and peloruside A. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1621-5	16.4	123
103	Novel colchicine-site binders with a cyclohexanedione scaffold identified through a ligand-based virtual screening approach. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 3924-38	8.3	34
102	Taxanes with high potency inducing tubulin assembly overcome tumoural cell resistances. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 5078-90	3.4	31
101	Synthesis and biological evaluation of new oxadiazoline-substituted naphthalenyl acetates as anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2014 , 87, 805-13	6.8	18
100	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, 13817-21	11.5	167
99	Molecular recognition of epothilones by microtubules and tubulin dimers revealed by biochemical and NMR approaches. <i>ACS Chemical Biology</i> , 2014 , 9, 1033-43	4.9	27
98	PM060184, a new tubulin binding agent with potent antitumor activity including P-glycoprotein over-expressing tumors. <i>Biochemical Pharmacology</i> , 2014 , 88, 291-302	6	41
97	Structural Basis of Microtubule Stabilization by Laulimalide and Peloruside A. <i>Angewandte Chemie</i> , 2014 , 126, 1647-1651	3.6	5
96	The impact of cyclopropane configuration on the biological activity of cyclopropyl-epothilones. <i>ChemMedChem</i> , 2014 , 9, 2227-32	3.7	11
95	Design and synthesis of pironetin analogue/colchicine hybrids and study of their cytotoxic activity and mechanisms of interaction with tubulin. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 10391-403	8.3	41
94	The diamagnetic susceptibility of the tubulin dimer. <i>Journal of Biophysics</i> , 2014 , 2014, 985082		10
93	Free Energy Profile and Kinetics Studies of Paclitaxel Internalization from the Outer to the Inner Wall of Microtubules. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 698-706	6.4	8
92	Synthesis and biological evaluation of truncated β -tubulin-binding pironetin analogues lacking alkyl pendants in the side chain or the dihydropyrone ring. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 5809-26	3.9	18
91	Methods for studying microtubule binding site interactions: zampanolide as a covalent binding agent. <i>Methods in Cell Biology</i> , 2013 , 115, 303-25	1.8	4

90	Molecular mechanism of action of microtubule-stabilizing anticancer agents. <i>Science</i> , 2013 , 339, 587-90	33.3	345
89	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, 2813-27	8.3	50
88	A structure-based design of new C2- and C13-substituted taxanes: tubulin binding affinities and extended quantitative structure-activity relationships using comparative binding energy (COMBINE) analysis. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 3046-56	3.9	18
87	Synthesis and Biological Evaluation of β -Tubulin-Binding Pironetin Analogues with Enhanced Lipophilicity. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 1116-1123	3.2	8
86	The binding sites of microtubule-stabilizing agents. <i>Chemistry and Biology</i> , 2013 , 20, 301-15		78
85	New interfacial microtubule inhibitors of marine origin, PM050489/PM060184, with potent antitumor activity and a distinct mechanism. <i>ACS Chemical Biology</i> , 2013 , 8, 2084-94	4.9	46
84	Synthesis and biological evaluation as microtubule-active agents of several tetrahydrofuran and spiroacetal derivatives. <i>Current Medicinal Chemistry</i> , 2013 , 20, 1173-82	4.3	5
83	Multiple keys for a single lock: the unusual structural plasticity of the nucleotidyltransferase (4R)/kanamycin complex. <i>Chemistry - A European Journal</i> , 2012 , 18, 2875-89	4.8	10
82	Structure-activity relationships of novel substituted naphthalene diimides as anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2012 , 57, 417-28	6.8	39
81	Tubulin binding, protein-bound conformation in solution, and antimitotic cellular profiling of noscapine and its derivatives. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 1920-5	8.3	22
80	Synthesis and biological evaluation of colchicine B-ring analogues tethered with halogenated benzyl moieties. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 11062-6	8.3	25
79	Synthesis and biological evaluation of colchicine C-ring analogues tethered with aliphatic linkers suitable for prodrug derivatisation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 7693-6	2.9	18
78	Zampanolide, a potent new microtubule-stabilizing agent, covalently reacts with the taxane luminal site in tubulin heterodimers and microtubules. <i>Chemistry and Biology</i> , 2012 , 19, 686-98		68
77	Synthesis and antimitotic and tubulin interaction profiles of novel pinacol derivatives of podophyllotoxins. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 6724-37	8.3	68
76	Cyclostreptin derivatives specifically target cellular tubulin and further map the paclitaxel site. <i>Biochemistry</i> , 2012 , 51, 329-41	3.2	17
75	Comparative binding energy (COMBINE) analysis supports a proposal for the binding mode of epothilones to β -tubulin. <i>ChemMedChem</i> , 2012 , 7, 836-43	3.7	11
74	Modulation of microtubule interprotofilament interactions by modified taxanes. <i>Biophysical Journal</i> , 2011 , 101, 2970-80	2.9	26
73	Effects of C7 substitutions in a high affinity microtubule-binding taxane on antitumor activity and drug transport. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 4852-6	2.9	8

72	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, 789-99	4.9	41
71	Highly Stereoselective Total Synthesis of (+)-9-epi-Dictyostatin and (±)-12,13-Bis-epi-dictyostatin. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 2643-2661	3.2	16
70	Mechanism of action of the cytotoxic macrolides amphidinolide X and J. <i>ChemBioChem</i> , 2011 , 12, 1027-30	3.8	13
69	Design and synthesis of pironetin analogues with simplified structure and study of their interactions with microtubules. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 1630-7	6.8	31
68	Fluorescent taxoid probes for microtubule research. <i>Methods in Cell Biology</i> , 2010 , 95, 353-72	1.8	14
67	Cpl-7, a lysozyme encoded by a pneumococcal bacteriophage with a novel cell wall-binding motif. <i>Journal of Biological Chemistry</i> , 2010 , 285, 33184-33196	5.4	34
66	Insights into nucleotide recognition by cell division protein FtsZ from a mant-GTP competition assay and molecular dynamics. <i>Biochemistry</i> , 2010 , 49, 10458-72	3.2	39
65	The binding mode of side chain- and C3-modified epothilones to tubulin. <i>ChemMedChem</i> , 2010 , 5, 911-20	5.7	12
64	Molecular recognition of peloruside A by microtubules. The C24 primary alcohol is essential for biological activity. <i>ChemBioChem</i> , 2010 , 11, 1669-78	3.8	21
63	Probing the pore drug binding site of microtubules with fluorescent taxanes: evidence of two binding poses. <i>Chemistry and Biology</i> , 2010 , 17, 243-53		19
62	Epothilone analogues with benzimidazole and quinoline side chains: chemical synthesis, antiproliferative activity, and interactions with tubulin. <i>Chemistry - A European Journal</i> , 2009 , 15, 10144-57	4.8	25
61	Possible binding site for paclitaxel at microtubule pores. <i>FEBS Journal</i> , 2009 , 276, 2701-12	5.7	26
60	Synthesis and biological activities of high affinity taxane-based fluorescent probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 751-4	2.9	13
59	The interaction of microtubules with stabilizers characterized at biochemical and structural levels. <i>Topics in Current Chemistry</i> , 2009 , 286, 121-49		10
58	Protein Shape and Assembly Studied with X-Ray Solution Scattering: Fundamentals and Practice. <i>Lecture Notes in Physics</i> , 2009 , 245-263	0.8	2
57	Apo-Hsp90 coexists in two open conformational states in solution. <i>Biology of the Cell</i> , 2008 , 100, 413-25	3.5	52
56	Interaction of a cyclostreptin analogue with the microtubule taxoid site: the covalent reaction rapidly follows binding. <i>Journal of Natural Products</i> , 2008 , 71, 370-4	4.9	13
55	Mass Spectrometry for Studying the Interaction between Small Molecules and Proteins. <i>Current Proteomics</i> , 2008 , 5, 20-34	0.7	9

54	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, 7557-69	4.8	61
53	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, 573-85		57
52	The total synthesis and biological properties of the cytotoxic macrolide FD-891 and its non-natural (Z)-C12 isomer. <i>Chemistry - A European Journal</i> , 2007 , 13, 5060-74	4.8	15
51	Overcoming tumor drug resistance with high-affinity taxanes: a SAR study of C2-modified 7-acyl-10-deacetyl cephalomannines. <i>ChemMedChem</i> , 2007 , 2, 691-701	3.7	36
50	Synthesis, biological evaluations, and tubulin binding poses of C-2alpha sulfur linked taxol analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 3191-4	2.9	4
49	Cyclostreptin binds covalently to microtubule pores and luminal taxoid binding sites 2007 , 3, 117-25		116
48	The interactions of cell division protein FtsZ with guanine nucleotides. <i>Journal of Biological Chemistry</i> , 2007 , 282, 37515-28	5.4	59
47	Insights into molecular plasticity of choline binding proteins (pneumococcal surface proteins) by SAXS. <i>Journal of Molecular Biology</i> , 2007 , 365, 411-24	6.5	20
46	Arylthioindole inhibitors of tubulin polymerization. 3. Biological evaluation, structure-activity relationships and molecular modeling studies. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 2865-74	8.3	157
45	Characterizing ligand-microtubule binding by competition methods. <i>Methods in Molecular Medicine</i> , 2007 , 137, 245-60		29
44	Farnesyltransferase inhibitors reverse taxane resistance. <i>Cancer Research</i> , 2006 , 66, 8838-46	10.1	26
43	NMR determination of the bioactive conformation of peloruside A bound to microtubules. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8757-65	16.4	60
42	The nucleotide switch of tubulin and microtubule assembly: a polymerization-driven structural change. <i>Biochemistry</i> , 2006 , 45, 5933-8	3.2	78
41	Cyclostreptin (FR182877), an antitumor tubulin-polymerizing agent deficient in enhancing tubulin assembly despite its high affinity for the taxoid site. <i>Biochemistry</i> , 2005 , 44, 11525-38	3.2	51
40	Macromolecular accessibility of fluorescent taxoids bound at a paclitaxel binding site in the microtubule surface. <i>Journal of Biological Chemistry</i> , 2005 , 280, 3928-37	5.4	40
39	Microtubule interactions with chemically diverse stabilizing agents: thermodynamics of binding to the paclitaxel site predicts cytotoxicity. <i>Chemistry and Biology</i> , 2005 , 12, 1269-79		192
38	Design, synthesis and biological evaluation of novel, simplified analogues of laulimalide: modification of the side chain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 2243-7	2.9	32
37	Peloruside A does not bind to the taxoid site on beta-tubulin and retains its activity in multidrug-resistant cell lines. <i>Cancer Research</i> , 2004 , 64, 5063-7	10.1	179

36	Interaction of epothilone analogs with the paclitaxel binding site: relationship between binding affinity, microtubule stabilization, and cytotoxicity. <i>Chemistry and Biology</i> , 2004 , 11, 225-36		22
35	Interaction of Epothilone Analogs with the Paclitaxel Binding SiteRelationship between Binding Affinity, Microtubule Stabilization, and Cytotoxicity. <i>Chemistry and Biology</i> , 2004 , 11, 225-236		37
34	Fast kinetics of Taxol binding to microtubules. Effects of solution variables and microtubule-associated proteins. <i>Journal of Biological Chemistry</i> , 2003 , 278, 8407-19	5.4	98
33	Chemical synthesis and biological evaluation of novel epothilone B and trans-12,13-cyclopropyl epothilone B analogues. <i>Tetrahedron</i> , 2002 , 58, 6413-6432	2.4	50
32	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, 9109-15	3.2	214
31	Activation of cell division protein FtsZ. Control of switch loop T3 conformation by the nucleotide gamma-phosphate. <i>Journal of Biological Chemistry</i> , 2001 , 276, 17307-15	5.4	47
30	A step toward the prediction of the fluorescence lifetimes of tryptophan residues in proteins based on structural and spectral data. <i>Protein Science</i> , 2000 , 9, 158-69	6.3	34
29	Role of the switch II region in the conformational transition of activation of Ha-ras-p21. <i>Protein Science</i> , 2000 , 9, 361-8	6.3	13
28	Molecular recognition of taxol by microtubules. Kinetics and thermodynamics of binding of fluorescent taxol derivatives to an exposed site. <i>Journal of Biological Chemistry</i> , 2000 , 275, 26265-76	5.4	101
27	Reconstruction of protein form with X-ray solution scattering and a genetic algorithm. <i>Journal of Molecular Biology</i> , 2000 , 299, 1289-302	6.5	126
26	Purification and characterization of an 18-kd allergen of birch (<i>Betula verrucosa</i>) pollen: identification as a cyclophilin. <i>Journal of Allergy and Clinical Immunology</i> , 2000 , 105, 286-91	11.5	49
25	Characterization of the hinges of the effector loop in the reaction pathway of the activation of ras-proteins. Kinetics of binding of beryllium trifluoride to V29G and I36G mutants of Ha-ras-p21. <i>Protein Science</i> , 1999 , 8, 1860-6	6.3	16
24	Scattering from Magnetically Oriented Microtubule Biopolymers. <i>ACS Symposium Series</i> , 1999 , 341-353	0.4	
23	The susceptibility of pure tubulin to high magnetic fields: a magnetic birefringence and x-ray fiber diffraction study. <i>Biophysical Journal</i> , 1998 , 74, 1509-21	2.9	109
22	Low-resolution structures of proteins in solution retrieved from X-ray scattering with a genetic algorithm. <i>Biophysical Journal</i> , 1998 , 74, 2760-75	2.9	259
21	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	1.7	2
20	Changes in microtubule protofilament number induced by Taxol binding to an easily accessible site. Internal microtubule dynamics. <i>Journal of Biological Chemistry</i> , 1998 , 273, 33803-10	5.4	90
19	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, 167-76	5.4	67

18	Equilibrium and kinetic study of the conformational transition toward the active state of p21Ha-ras, induced by the binding of BeF ₃ - to the GDP-bound state, in the absence of GTPase-activating proteins. <i>Journal of Biological Chemistry</i> , 1997 , 272, 23138-43	5.4	32
17	Calculation of pathways for the conformational transition between the GTP- and GDP-bound states of the Ha-ras-p21 protein: Calculations with explicit solvent simulations and comparison with calculations in vacuum. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997 , 28, 434-451	4.2	52
16	Structural intermediates in the assembly of taxoid-induced microtubules and GDP-tubulin double rings: time-resolved X-ray scattering. <i>Biophysical Journal</i> , 1996 , 70, 2408-20	2.9	31
15	Mechanism of pressure denaturation of BPTI.. <i>Progress in Biotechnology</i> , 1996 , 13, 167-170		1
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7	Assembly of purified GDP-tubulin into microtubules induced by taxol and taxotere: reversibility, ligand stoichiometry, and competition. <i>Biochemistry</i> , 1993 , 32, 2747-55	3.2	374
6	Low resolution structure of microtubules in solution. Synchrotron X-ray scattering and electron microscopy of taxol-induced microtubules assembled from purified tubulin in comparison with glycerol and MAP-induced microtubules. <i>Journal of Molecular Biology</i> , 1992 , 226, 169-84	6.5	129
5	Kinetics of dissociation of the tubulin-colchicine complex. Complete reaction scheme and comparison to thermodynamic measurements. <i>Journal of Biological Chemistry</i> , 1991 , 266, 2890-6	5.4	26
4	Kinetics of dissociation of the tubulin-colchicine complex. Complete reaction scheme and comparison to thermodynamic measurements.. <i>Journal of Biological Chemistry</i> , 1991 , 266, 2890-2896	5.4	33
3	Structural responsiveness of filamentous bacteriophage Pf1: comparison of virion structure in fibers and solution. The effect of temperature and ionic strength. <i>Biophysical Journal</i> , 1987 , 52, 199-214 ^{2.9}		13
2	Two antagonistic microtubule targeting drugs act synergistically to kill cancer cells		1
1	Microtubule lattice defects promote catastrophes		1

