J Fernando DÃ-az

List of Publications by Year
in descending order

163	7,551	53751 45	64755 79
papers	citations	h-index	g-index

173	173	173	6815
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Mechanism of Action of Microtubule-Stabilizing Anticancer Agents. Science, 2013, 339, 587-590.	6.0	436
2	Assembly of purified GDP-tubulin into microtubules induced by taxol and taxotere: Reversibility, ligand stoichiometry, and competition. Biochemistry, 1993, 32, 2747-2755.	1.2	410
3	Low-Resolution Structures of Proteins in Solution Retrieved from X-Ray Scattering with a Genetic Algorithm. Biophysical Journal, 1998, 74, 2760-2775.	0.2	284
4	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 Activityâ€. Biochemistry, 2002, 41, 9109-9115.	1.2	231
5	A new tubulin-binding site and pharmacophore for microtubule-destabilizing anticancer drugs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13817-13821.	3.3	229
6	Microtubule Interactions with Chemically Diverse Stabilizing Agents: Thermodynamics of Binding to the Paclitaxel Site Predicts Cytotoxicity. Chemistry and Biology, 2005, 12, 1269-1279.	6.2	212
7	Peloruside A Does Not Bind to the Taxoid Site on Î²-Tubulin and Retains Its Activity in Multidrug-Resistant Cell Lines. Cancer Research, 2004, 64, 5063-5067.	0.4	191
8	Arylthioindole Inhibitors of Tubulin Polymerization. 3. Biological Evaluation, Structureâ^'Activity Relationships and Molecular Modeling Studies. Journal of Medicinal Chemistry, 2007, 50, 2865-2874.	2.9	177
9	Insights into the Distinct Mechanisms of Action of Taxane and Non-Taxane Microtubule Stabilizers from Cryo-EM Structures. Journal of Molecular Biology, 2017, 429, 633-646.	2.0	161
10	Structural Basis of Microtubule Stabilization by Laulimalide and Pelorusideâ€...A. Angewandte Chemie - International Edition, 2014, 53, 1621-1625.	7.2	154
11	Reconstruction of protein form with X-ray solution scattering and a genetic algorithm. Journal of Molecular Biology, 2000, 299, 1289-1302.	2.0	136
12	Low resolution structure of microtubules in solution. Journal of Molecular Biology, 1992, 226, 169-184.	2.0	133
13	Cyclostreptin binds covalently to microtubule pores and lumenal taxoid binding sites. , 2007, 3, 117-125.		130
14	The Susceptibility of Pure Tubulin to High Magnetic Fields: A Magnetic Birefringence and X-Ray Fiber Diffraction Study. Biophysical Journal, 1998, 74, 1509-1521.	0.2	120
15	Fast Kinetics of Taxol Binding to Microtubules. Journal of Biological Chemistry, 2003, 278, 8407-8419.	1.6	118
16	Molecular Recognition of Taxol by Microtubules. Journal of Biological Chemistry, 2000, 275, 26265-26276.	1.6	116
17	The Binding Sites of Microtubule-Stabilizing Agents. Chemistry and Biology, 2013, 20, 301-315.	6.2	106
18	Changes in Microtubule Protofilament Number Induced by Taxol Binding to an Easily Accessible Site. Journal of Biological Chemistry, 1998, 273, 33803-33810.	1.6	104

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19	Thermodynamics of ligand-induced assembly of tubulin. Biochemistry, 1993, 32, 10067-10077.	1.2	99
20	The Nucleotide Switch of Tubulin and Microtubule Assembly:Â A Polymerization-Driven Structural Changeâ€. Biochemistry, 2006, 45, 5933-5938.	1.2	94
21	Deconvolution of Buparlisibâ€™s mechanism of action defines specific PI3K and tubulin inhibitors for therapeutic intervention. Nature Communications, 2017, 8, 14683.	5.8	88
22	Zampanolide, a Potent New Microtubule-Stabilizing Agent, Covalently Reacts with the Taxane Luminal Site in Tubulin Î±,Î²-Heterodimers and Microtubules. Chemistry and Biology, 2012, 19, 686-698.	6.2	81
23	Control of the Structural Stability of the Tubulin Dimer by One High Affinity Bound Magnesium Ion at Nucleotide N-site. Journal of Biological Chemistry, 1998, 273, 167-176.	1.6	79
24	Synthesis and Antimitotic and Tubulin Interaction Profiles of Novel Pinacol Derivatives of Podophyllotoxins. Journal of Medicinal Chemistry, 2012, 55, 6724-6737.	2.9	77
25	Solution Structure of GDP-tubulin Double Rings to 3 nm Resolution and Comparison with Microtubules. Journal of Molecular Biology, 1994, 238, 214-225.	2.0	69
26	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.	6.2	68
27	The Interactions of Cell Division Protein FtsZ with Guanine Nucleotides. Journal of Biological Chemistry, 2007, 282, 37515-37528.	1.6	65
28	Pironetin Binds Covalently to Î±Cys316 and Perturbs a Major Loop and Helix of Î±-Tubulin to Inhibit Microtubule Formation. Journal of Molecular Biology, 2016, 428, 2981-2988.	2.0	64
29	NMR Determination of the Bioactive Conformation of Peloruside A Bound To Microtubules. Journal of the American Chemical Society, 2006, 128, 8757-8765.	6.6	62
30	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.	1.7	62
31	Apoâ€Hsp90 coexists in two open conformational states in solution. Biology of the Cell, 2008, 100, 413-425.	0.7	62
32	Endowing Indole-Based Tubulin Inhibitors with an Anchor for Derivatization: Highly Potent 3-Substituted Indolephenstatins and Indoleisocombretastatins. Journal of Medicinal Chemistry, 2013, 56, 2813-2827.	2.9	62
33	Triazolopyrimidines Are Microtubule-Stabilizing Agents that Bind the Vinca Inhibitor Site of Tubulin. Cell Chemical Biology, 2017, 24, 737-750.e6.	2.5	58
34	Chemical synthesis and biological evaluation of novel epothilone B and trans-12,13-cyclopropyl epothilone B analogues. Tetrahedron, 2002, 58, 6413-6432.	1.0	57
35	New Interfacial Microtubule Inhibitors of Marine Origin, PM050489/PM060184, with Potent Antitumor Activity and a Distinct Mechanism. ACS Chemical Biology, 2013, 8, 2084-2094.	1.6	57
36	Purification and characterization of an 18-kd allergen of birch (Betula verrucosa) pollen: Identification as a cyclophilin. Journal of Allergy and Clinical Immunology, 2000, 105, 286-291.	1.5	56

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37	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. Proteins: Structure, Function and Bioinformatics, 1997, 28, 434-451.	1.5	55
38	Cyclostreptin (FR182877), an Antitumor Tubulin-Polymerizing Agent Deficient in Enhancing Tubulin Assembly Despite Its High Affinity for the Taxoid Site. Biochemistry, 2005, 44, 11525-11538.	1.2	55
39	TRAPPII regulates exocytic Golgi exit by mediating nucleotide exchange on the Ypt31 ortholog RabE ^{RAB11}. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4346-4351.	3.3	55
40	Molecular mechanisms of pressure induced conformational changes in BPTI. Proteins: Structure, Function and Bioinformatics, 1996, 25, 446-455.	1.5	55
41	Activation of Cell Division Protein FtsZ. Journal of Biological Chemistry, 2001, 276, 17307-17315.	1.6	53
42	Antivascular and antitumor properties of the tubulin-binding chalcone TUB091. Oncotarget, 2017, 8, 14325-14342.	0.8	50
43	PM060184, a new tubulin binding agent with potent antitumor activity including P-glycoprotein over-expressing tumors. Biochemical Pharmacology, 2014, 88, 291-302.	2.0	49
44	Interaction of Epothilone Analogs with the Paclitaxel Binding Site. Chemistry and Biology, 2004, 11, 225-236.	6.2	47
45	Gatorbulin-1, a distinct cyclodepsipeptide chemotype, targets a seventh tubulin pharmacological site. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	47
46	Kinetics of dissociation of the tubulin-colchicine complex. Complete reaction scheme and comparison to thermodynamic measurements.. Journal of Biological Chemistry, 1991, 266, 2890-2896.	1.6	47
47	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.	1.6	46
48	Design and Synthesis of Pironetin Analogue/Colchicine Hybrids and Study of Their Cytotoxic Activity and Mechanisms of Interaction with Tubulin. Journal of Medicinal Chemistry, 2014, 57, 10391-10403.	2.9	46
49	Novel Colchicine-Site Binders with a Cyclohexanedione Scaffold Identified through a Ligand-Based Virtual Screening Approach. Journal of Medicinal Chemistry, 2014, 57, 3924-3938.	2.9	46
50	Insights into Nucleotide Recognition by Cell Division Protein FtsZ from a mant-GTP Competition Assay and Molecular Dynamics. Biochemistry, 2010, 49, 10458-10472.	1.2	45
51	Klebsiella oxytoca enterotoxins tilimycin and tilivalline have distinct host DNA-damaging and microtubule-stabilizing activities. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3774-3783.	3.3	45
52	Molecular dynamics simulation of the solution structures of Ha-ras-p21 GDP and GTP complexes: flexibility, possible hinges, and levers of the conformational transition. Biochemistry, 1995, 34, 12038-12047.	1.2	44
53	Macromolecular Accessibility of Fluorescent Taxoids Bound at a Paclitaxel Binding Site in the Microtubule Surface. Journal of Biological Chemistry, 2005, 280, 3928-3937.	1.6	44
54	Cpl-7, a Lysozyme Encoded by a Pneumococcal Bacteriophage with a Novel Cell Wall-binding Motif*. Journal of Biological Chemistry, 2010, 285, 33184-33196.	1.6	44

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55	Structureâ€“activity relationships of novel substituted naphthalene diimides as anticancer agents. European Journal of Medicinal Chemistry, 2012, 57, 417-428.	2.6	44
56	Synthesis, Characterization, and Application in HeLa Cells of an NIR Light Responsive Doxorubicin Delivery System Based on NaYF₄:Yb,Tm@SiO₂-PEG Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 14992-14999.	4.0	44
57	Taxanes convert regions of perturbed microtubule growth into rescue sites. Nature Materials, 2020, 19, 355-365.	13.3	44
58	Structural model for differential cap maturation at growing microtubule ends. ELife, 2020, 9, .	2.8	44
59	High-affinity ligands of the colchicine domain in tubulin based on a structure-guided design. Scientific Reports, 2018, 8, 4242.	1.6	42
60	A fluorescence anisotropy assay to discover and characterize ligands targeting the maytansineÂsite of tubulin. Nature Communications, 2018, 9, 2106.	5.8	41
61	Interaction of Epothilone Analogs with the Paclitaxel Binding SiteRelationship between Binding Affinity, Microtubule Stabilization, and Cytotoxicity. Chemistry and Biology, 2004, 11, 225-236.	6.2	39
62	Overcoming Tumor Drug Resistance with High-Affinity Taxanes: A SAR Study of C2-Modified 7-Acyl-10-Deacetyl Cephalomannines. ChemMedChem, 2007, 2, 691-701.	1.6	39
63	A step toward the prediction of the fluorescence lifetimes of tryptophan residues in proteins based on structural and spectral data. Protein Science, 2000, 9, 158-169.	3.1	36
64	Design, synthesis and biological evaluation of novel, simplified analogues of laulimalide: modification of the side chain. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2243-2247.	1.0	35
65	Design and synthesis of pironetin analogues with simplified structure and study of their interactions with microtubules. European Journal of Medicinal Chemistry, 2011, 46, 1630-1637.	2.6	35
66	Taxanes with high potency inducing tubulin assembly overcome tumoural cell resistances. Bioorganic and Medicinal Chemistry, 2014, 22, 5078-5090.	1.4	35
67	Self-Organization of FtsZ Polymers in Solution Reveals Spacer Role of the Disordered C-Terminal Tail. Biophysical Journal, 2017, 113, 1831-1844.	0.2	35
68	Equilibrium and Kinetic Study of the Conformational Transition toward the Active State of p21Ha-, Induced by the Binding of BeF3â^' to the GDP-bound State, in the Absence of GTPase-activating Proteins. Journal of Biological Chemistry, 1997, 272, 23138-23143.	1.6	34
69	Structural intermediates in the assembly of taxoid-induced microtubules and GDP-tubulin double rings: time-resolved X-ray scattering. Biophysical Journal, 1996, 70, 2408-2420.	0.2	33
70	Possible binding site for paclitaxel at microtubule pores. FEBS Journal, 2009, 276, 2701-2712.	2.2	33
71	Structure, Thermodynamics, and Kinetics of Plinabulin Binding to Two Tubulin Isotypes. CheM, 2019, 5, 2969-2986.	5.8	33
72	Characterizing Ligand-Microtubule Binding by Competition Methods. Methods in Molecular Medicine, 2007, 137, 245-260.	0.8	33

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73	Farnesyltransferase Inhibitors Reverse Taxane Resistance. Cancer Research, 2006, 66, 8838-8846.	0.4	32
74	Structure-activity relationships, biological evaluation and structural studies of novel pyrrolonaphthoxazepines as antitumor agents. European Journal of Medicinal Chemistry, 2019, 162, 290-320.	2.6	31
75	Molecular Recognition of Epothilones by Microtubules and Tubulin Dimers Revealed by Biochemical and NMR Approaches. ACS Chemical Biology, 2014, 9, 1033-1043.	1.6	30
76	Structural Basis of Microtubule Stabilization by Discodermolide. ChemBioChem, 2017, 18, 905-909.	1.3	30
77	Structural Basis of Noscapine Activation for Tubulin Binding. Journal of Medicinal Chemistry, 2020, 63, 8495-8501.	2.9	30
78	Modulation of Microtubule Interprotofilament Interactions by Modified Taxanes. Biophysical Journal, 2011, 101, 2970-2980.	0.2	28
79	Epothilone Analogues with Benzimidazole and Quinoline Side Chains: Chemical Synthesis, Antiproliferative Activity, and Interactions with Tubulin. Chemistry - A European Journal, 2009, 15, 10144-10157.	1.7	27
80	Synthesis and Biological Evaluation of Colchicine B-Ring Analogues Tethered with Halogenated Benzyl Moieties. Journal of Medicinal Chemistry, 2012, 55, 11062-11066.	2.9	27
81	Kinetics of dissociation of the tubulin-colchicine complex. Complete reaction scheme and comparison to thermodynamic measurements. Journal of Biological Chemistry, 1991, 266, 2890-6.	1.6	27
82	Structural and Biochemical Characterization of the Interaction of Tubulin with Potent Natural Analogues of Podophyllotoxin. Journal of Natural Products, 2016, 79, 2113-2121.	1.5	26
83	Tubulin Binding, Protein-Bound Conformation in Solution, and Antimitotic Cellular Profiling of Noscapine and Its Derivatives. Journal of Medicinal Chemistry, 2012, 55, 1920-1925.	2.9	25
84	Zampanolide, a Microtubule-Stabilizing Agent, Is Active in Resistant Cancer Cells and Inhibits Cell Migration. International Journal of Molecular Sciences, 2017, 18, 971.	1.8	24
85	Gallic acid sensitizes paclitaxel-resistant human ovarian carcinoma cells through an increase in reactive oxygen species and subsequent downregulation of ERK activation. Oncology Reports, 2018, 39, 3007-3014.	1.2	24
86	Crystal Structure of the Cyclostreptin-Tubulin Adduct: Implications for Tubulin Activation by Taxane-Site Ligands. International Journal of Molecular Sciences, 2019, 20, 1392.	1.8	24
87	Lattice defects induced by microtubule-stabilizing agents exert a long-range effect on microtubule growth by promoting catastrophes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
88	Insights into Molecular Plasticity of Choline Binding Proteins (Pneumococcal Surface Proteins) by SAXS. Journal of Molecular Biology, 2007, 365, 411-424.	2.0	23
89	Molecular Recognition of Peloruside A by Microtubules. The C24 Primary Alcohol is Essential for Biological Activity. ChemBioChem, 2010, 11, 1669-1678.	1.3	22
90	Synthesis and biological evaluation of truncated Î±-tubulin-binding pironetin analogues lacking alkyl pendants in the side chain or the dihydropyrone ring. Organic and Biomolecular Chemistry, 2013, 11, 5809.	1.5	22

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91	A structure-based design of new C2- and C13-substituted taxanes: tubulin binding affinities and extended quantitative structureâ€“activity relationships using comparative binding energy (COMBINE) analysis. Organic and Biomolecular Chemistry, 2013, 11, 3046.	1.5	22
92	Synthesis and biological evaluation of new oxadiazoline-substituted naphthalenyl acetates as anticancer agents. European Journal of Medicinal Chemistry, 2014, 87, 805-813.	2.6	22
93	Structural Determinants of the Dictyostatin Chemotype for Tubulin Binding Affinity and Antitumor Activity Against Taxane- and Epothilone-Resistant Cancer Cells. ACS Omega, 2016, 1, 1192-1204.	1.6	22
94	Probing the Pore Drug Binding Site of Microtubules with Fluorescent Taxanes: Evidence of Two Binding Poses. Chemistry and Biology, 2010, 17, 243-253.	6.2	21
95	Synthesis and biological evaluation of colchicine C-ring analogues tethered with aliphatic linkers suitable for prodrug derivatisation. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 7693-7696.	1.0	21
96	Aggregated Compound Biological Signatures Facilitate Phenotypic Drug Discovery and Target Elucidation. ACS Chemical Biology, 2016, 11, 3024-3034.	1.6	20
97	Au@p4VP core@shell pH-sensitive nanocomposites suitable for drug entrapment. Journal of Colloid and Interface Science, 2018, 514, 704-714.	5.0	19
98	The Total Synthesis and Biological Properties of the Cytotoxic Macrolide FD-891 and Its Non-Natural (Z)-C12 Isomer. Chemistry - A European Journal, 2007, 13, 5060-5074.	1.7	18
99	Fluorescent Taxoid Probes for Microtubule Research. Methods in Cell Biology, 2010, 95, 353-372.	0.5	17
100	Cyclostreptin Derivatives Specifically Target Cellular Tubulin and Further Map the Paclitaxel Site. Biochemistry, 2012, 51, 329-341.	1.2	17
101	Characterization of the hinges of the effector loop in the reaction pathway of the activation of rasâ€proteins. Kinetics of binding of beryllium trifluoride to V29G and I36G mutants of Haâ€rasâ€p21. Protein Science, 1999, 8, 1860-1866.	3.1	16
102	Highly Stereoselective Total Synthesis of (+)â€9â€epiâ€Dictyostatin and (â€“)â€12,13â€Bisâ€epiâ€dictyostatin. European Journal of Organic Chemistry, 2011, 2011, 2643-2661.	1.2	16
103	Identification of pyrrolopyrimidine derivative PP-13 as a novel microtubule-destabilizing agent with promising anticancer properties. Scientific Reports, 2017, 7, 10209.	1.6	16
104	Molecular mechanisms of pressure induced conformational changes in BPTI. Proteins: Structure, Function and Bioinformatics, 1996, 25, 446-455.	1.5	15
105	Synthesis and biological activities of high affinity taxane-based fluorescent probes. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 751-754.	1.0	15
106	Conformational mimetics of the Î±-methyl chalcone TUB091 binding tubulin: Design, synthesis and antiproliferative activity. European Journal of Medicinal Chemistry, 2018, 148, 337-348.	2.6	15
107	Zampanolide Binding to Tubulin Indicates Cross-Talk of Taxane Site with Colchicine and Nucleotide Sites. Journal of Natural Products, 2018, 81, 494-505.	1.5	15
108	Structural responsiveness of filamentous bacteriophage Pf1: comparison of virion structure in fibers and solution. The effect of temperature and ionic strength. Biophysical Journal, 1987, 52, 199-214.	0.2	14

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109	Interaction of a Cyclostreptin Analogue with the Microtubule Taxoid Site: The Covalent Reaction Rapidly Follows Binding. Journal of Natural Products, 2008, 71, 370-374.	1.5	14
110	The Binding Mode of Side Chainâ€•and C3â€Modified Epothilones to Tubulin. ChemMedChem, 2010, 5, 911-920.	1.6	14
111	Mechanism of Action of the Cytotoxic Macrolides Amphidinolide X and J. ChemBioChem, 2011, 12, 1027-1030.	1.3	14
112	Role of the switch II region in the conformational transition of activation of Haâ€rasâ€p21. Protein Science, 2000, 9, 361-368.	3.1	13
113	Comparative Binding Energy (COMBINE) Analysis Supports a Proposal for the Binding Mode of Epothilones to Î²â€Tubulin. ChemMedChem, 2012, 7, 836-843.	1.6	13
114	Multiple Keys for a Single Lock: The Unusual Structural Plasticity of the Nucleotidyltransferase (4â€²)/Kanamycin Complex. Chemistry - A European Journal, 2012, 18, 2875-2889.	1.7	13
115	The Impact of Cyclopropane Configuration on the Biological Activity of Cyclopropylâ€Epothilones. ChemMedChem, 2014, 9, 2227-2232.	1.6	13
116	The Diamagnetic Susceptibility of the Tubulin Dimer. Journal of Biophysics, 2014, 2014, 1-5.	0.8	13
117	Modification of C-seco taxoids through ring tethering and substituent replacement leading to effective agents against tumor drug resistance mediated by Î²III-Tubulin and P-glycoprotein (P-gp) overexpressions. European Journal of Medicinal Chemistry, 2017, 137, 488-503.	2.6	13
118	Identification of the guanine nucleotide exchange factor for SAR1 in the filamentous fungal model Aspergillus nidulans. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 118551.	1.9	13
119	High affinity and covalent-binding microtubule stabilizing agents show activity in chemotherapy-resistant acute myeloid leukemia cells. Cancer Letters, 2015, 368, 97-104.	3.2	12
120	The Interaction of Microtubules with Stabilizers Characterized at Biochemical and Structural Levels. Topics in Current Chemistry, 2008, 286, 121-149.	4.0	11
121	N-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. Cancer Cell International, 2020, 20, 170.	1.8	11
122	Experimental and theoretical study of electrostatic effects on the isoelectric pH and the pKa of the catalytic residue His-102 of the recombinant ribonuclease fromBacillus amyloliquefaciens (barnase). , 1996, 24, 370-378.		10
123	Effects of C7 substitutions in a high affinity microtubule-binding taxane on antitumor activity and drug transport. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4852-4856.	1.0	10
124	Cytotoxic Activity and Chemical Composition of the Root Extract from the Mexican SpeciesLinum scabrellum: Mechanism of Action of the Active Compound 6-Methoxypodophyllotoxin. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-11.	0.5	10
125	Mass Spectrometry for Studying the Interaction between Small Molecules and Proteins. Current Proteomics, 2008, 5, 20-34.	0.1	9
126	Free Energy Profile and Kinetics Studies of Paclitaxel Internalization from the Outer to the Inner Wall of Microtubules. Journal of Chemical Theory and Computation, 2013, 9, 698-706.	2.3	9

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127	Restoration of Microtubule Interaction and Cytotoxicity in D-seco Taxanes upon Incorporation of 20-Hydroxymethyl-4-allyloxy Groups. Organic Letters, 2015, 17, 6098-6101.	2.4	9
128	Total Synthesis of Amphidinolide K, a Macrolide That Stabilizes F-Actin. Journal of Organic Chemistry, 2015, 80, 8511-8519.	1.7	9
129	Quinolin-6-Yloxyacetamides Are Microtubule Destabilizing Agents That Bind to the Colchicine Site of Tubulin. International Journal of Molecular Sciences, 2017, 18, 1336.	1.8	9
130	Synthesis of ThicolchicineâEBased Conjugates: Investigation towards Bivalent Tubulin/Microtubules Binders. ChemPlusChem, 2019, 84, 98-102.	1.3	9
131	Synthesis and Biological Evaluation of Î±â€TubulinâEBinding Pironetin Analogues with Enhanced Lipophilicity. European Journal of Organic Chemistry, 2013, 2013, 1116-1123.	1.2	8
132	Targeting the colchicine site in tubulin through cyclohexanedione derivatives. RSC Advances, 2016, 6, 19492-19506.	1.7	8
133	The Mechanism of the Interactions of Pironetin Analog/Combretastatin Aâ€4 Hybrids with Tubulin. Archiv Der Pharmazie, 2015, 348, 541-547.	2.1	7
134	Two Antagonistic Microtubule Targeting Drugs Act Synergistically to Kill Cancer Cells. Cancers, 2020, 12, 2196.	1.7	7
135	Synthesis of MorpholineâEBased Analogues of (â^')â€Zampanolide and Their Biological Activity. Chemistry - A European Journal, 2021, 27, 5936-5943.	1.7	7
136	Synthesis, Biological Profiling and Determination of the Tubulin-Bound Conformation of 12-Aza-Epothilones (Azathilones). Molecules, 2016, 21, 1010.	1.7	6
137	Design, Synthesis, and inâ€...vitro Evaluation of TubulinâETargeting Dibenzothiazines with Antiproliferative Activity as a Novel Heterocycle Building Block. ChemMedChem, 2021, 16, 3003-3016.	1.6	6
138	Synthesis and Biological Evaluation As Microtubule-Active Agents of Several Tetrahydrofuran and Spiroacetal Derivatives. Current Medicinal Chemistry, 2013, 20, 1173-1182.	1.2	6
139	Design and synthesis of multifunctional microtubule targeting agents endowed with dual pro-apoptotic and anti-autophagic efficacy. European Journal of Medicinal Chemistry, 2022, 235, 114274.	2.6	6
140	Circular dichroism and fourier transform infrared spectroscopic studies on the secondary structure of Saccharomyces cerevisiae and Escherichia coli phospho enolpyruvate carboxykinases. BBA - Proteins and Proteomics, 1995, 1252, 23-27.	2.1	5
141	Diphenyl ether derivatives occupy the expanded binding site of cyclohexanedione compounds at the colchicine site in tubulin by movement of the Î±T5 loop. European Journal of Medicinal Chemistry, 2019, 171, 195-208.	2.6	5
142	A Method for the Stereoselective Construction of the Hemiaminal Center in Zampanolides. Organic Letters, 2020, 22, 8345-8348.	2.4	5
143	Studies toward the Synthesis of an Oxazole-Based Analog of (â^')-Zampanolide. Organic Letters, 2021, 23, 2238-2242.	2.4	5
144	CLIP-170S is a microtubuleÂ+TIP variant that confers resistance to taxanes by impairing drug-target engagement. Developmental Cell, 2021, 56, 3264-3275.e7.	3.1	5

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145	Maytansinol Derivatives: Side Reactions as a Chance for New Tubulin Binders. Chemistry - A European Journal, 2021, 28, e202103520.	1.7	5
146	Effect of Clinically Used Microtubule Targeting Drugs on Viral Infection and Transport Function. International Journal of Molecular Sciences, 2022, 23, 3448.	1.8	5
147	Synthesis, biological evaluations, and tubulin binding poses of C-2Î± sulfur linked taxol analogues. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 3191-3194.	1.0	4
148	Methods for Studying Microtubule Binding Site Interactions. Methods in Cell Biology, 2013, 115, 303-325.	0.5	4
149	Synthesis and Antiâ€Proliferative Activity of Sulfanyltriazolylnaphthalenols and Sulfanyltriazolylnaphthaleneâ€1,4â€diones. Archiv Der Pharmazie, 2016, 349, 749-761.	2.1	4
150	Structural Basis of Colchicine-Site targeting Acylhydrazones active against Multidrug-Resistant Acute Lymphoblastic Leukemia. IScience, 2019, 21, 95-109.	1.9	4
151	Synthesis, Microtubule-Binding Affinity, and Antiproliferative Activity of New Epothilone Analogs and of an EGFR-Targeted Epothilone-Peptide Conjugate. International Journal of Molecular Sciences, 2019, 20, 1113.	1.8	4
152	Synthesis, Profiling, and Bioactive Conformation of trans â€Cyclopropyl Epothilones. Helvetica Chimica Acta, 2019, 102, e1900078.	1.0	3
153	Structural and Functional Insights Into Skl and Pal Endolysins, Two Cysteine-Amidases With Anti-pneumococcal Activity. Dithiothreitol (DTT) Effect on Lytic Activity. Frontiers in Microbiology, 2021, 12, 740914.	1.5	3
154	Fast mixing device for time-resolved synchrotron x-ray scattering studies of radiation sensitive proteins. Review of Scientific Instruments, 1998, 69, 286-289.	0.6	2
155	Protein Shape and Assembly Studied with X-Ray Solution Scattering: Fundaments and Practice. Lecture Notes in Physics, 2009, , 245-263.	0.3	2
156	Synthesis of N-acyl Derivatives of Aminocombretastatin A-4 and Study of their Interaction with Tubulin and Downregulation of c-Myc. Medicinal Chemistry, 2021, 17, 1129-1139.	0.7	2
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