Mary Ann Jordan

List of Publications by Year
in descending order

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64 papers	12,033 citations	81434 41 h-index	139680 61 g-index
64 all docs	64 docs citations	64 times ranked	14589 citing authors

#	Article	IF	Citations
1	Microtubules as a target for anticancer drugs. Nature Reviews Cancer, 2004, 4, 253-265.	12.8	3,823
2	Microtubule-binding agents: a dynamic field of cancer therapeutics. Nature Reviews Drug Discovery, 2010, 9, 790-803.	21.5	1,431
3	Microtubules and actin filaments: dynamic targets for cancer chemotherapy. Current Opinion in Cell Biology, 1998, 10, 123-130.	2.6	575
4	Taxol Suppresses Dynamics of Individual Microtubules in Living Human Tumor Cells. Molecular Biology of the Cell, 1999, 10, 947-959.	0.9	483
5	The primary antimitotic mechanism of action of the synthetic halichondrin E7389 is suppression of microtubule growth. Molecular Cancer Therapeutics, 2005, 4, 1086-1095.	1.9	435
6	Substoichiometric Binding of Taxol Suppresses Microtubule Dynamics. Biochemistry, 1995, 34, 2203-2211.	1.2	322
7	Eribulin Binds at Microtubule Ends to a Single Site on Tubulin To Suppress Dynamic Instability. Biochemistry, 2010, 49, 1331-1337.	1.2	267
8	Taxol Differentially Modulates the Dynamics of Microtubules Assembled from Unfractionated and Purified Î²-Tubulin Isotypesâ€. Biochemistry, 1997, 36, 3554-3562.	1.2	246
9	Kinetic stabilization of microtubule dynamic instability in vitro by vinblastine. Biochemistry, 1993, 32, 1285-1293.	1.2	245
10	How Do Microtubule-Targeted Drugs Work? An Overview. Current Cancer Drug Targets, 2007, 7, 730-742.	0.8	245
11	Î²III-Tubulin Induces Paclitaxel Resistance in Association with Reduced Effects on Microtubule Dynamic Instability. Journal of Biological Chemistry, 2005, 280, 12902-12907.	1.6	230
12	Maytansine and Cellular Metabolites of Antibody-Maytansinoid Conjugates Strongly Suppress Microtubule Dynamics by Binding to Microtubules. Molecular Cancer Therapeutics, 2010, 9, 2689-2699.	1.9	199
13	Inhibition of centromere dynamics by eribulin (E7389) during mitotic metaphase. Molecular Cancer Therapeutics, 2008, 7, 2003-2011.	1.9	190
14	Microtubule dynamics: taking aim at a moving target. Chemistry and Biology, 1995, 2, 569-573.	6.2	182
15	Effects of eribulin, vincristine, paclitaxel and ixabepilone on fast axonal transport and kinesin-1 driven microtubule gliding: Implications for chemotherapy-induced peripheral neuropathy. NeuroToxicology, 2013, 37, 231-239.	1.4	182
16	Modulation of Microtubule Dynamics by Drugs. A Paradigm for the Actions of Cellular Regulators.. Cell Structure and Function, 1999, 24, 329-335.	0.5	150
17	Mechanism of Mitotic Block and Inhibition of Cell Proliferation by the Semisynthetic Vinca Alkaloids Vinorelbine and Its Newer Derivative Vinflunine. Molecular Pharmacology, 2001, 60, 225-232.	1.0	146
18	Maytansinoid-Antibody Conjugates Induce Mitotic Arrest by Suppressing Microtubule Dynamic Instability. Molecular Cancer Therapeutics, 2010, 9, 2700-2713.	1.9	140

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19	Modulation of Microtubule Dynamics by Tau in Living Cells: Implications for Development and Neurodegeneration. Molecular Biology of the Cell, 2004, 15, 2720-2728.	0.9	136
20	Antiangiogenic Concentrations of Paclitaxel Induce an Increase in Microtubule Dynamics in Endothelial Cells but Not in Cancer Cells. Cancer Research, 2005, 65, 2433-2440.	0.4	135
21	Ixabepilone: targeting Î²III-tubulin expression in taxane-resistant malignancies. Molecular Cancer Therapeutics, 2009, 8, 17-25.	1.9	109
22	Antiproliferative mechanism of action of cryptophycin-52: Kinetic stabilization of microtubule dynamics by high-affinity binding to microtubule ends. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9313-9318.	3.3	107
23	Differential Effects of Vinblastine on Polymerization and Dynamics at Opposite Microtubule Ends. Journal of Biological Chemistry, 1996, 271, 29807-29812.	1.6	105
24	Synergistic Suppression of Microtubule Dynamics by Discodermolide and Paclitaxel in Non-Small Cell Lung Carcinoma Cells. Cancer Research, 2004, 64, 4957-4964.	0.4	95
25	Mechanism of Action of the Unusually Potent Microtubule Inhibitor Cryptophycin 1. Biochemistry, 1997, 36, 12948-12953.	1.2	93
26	Suppression of microtubule dynamics by epothilone B is associated with mitotic arrest. Cancer Research, 2003, 63, 6026-31.	0.4	91
27	Microtubule Dynamics, Mitotic Arrest, and Apoptosis: Drug-Induced Differential Effects of Î²III-Tubulin. Molecular Cancer Therapeutics, 2010, 9, 1339-1348.	1.9	89
28	Hesperidin suppressed proliferations of both Human breast cancer and androgenâ€dependent prostate cancer cells. Phytotherapy Research, 2010, 24, S15-9.	2.8	83
29	The effects of vinflunine, vinorelbine, and vinblastine on centromere dynamics. Molecular Cancer Therapeutics, 2003, 2, 427-36.	1.9	83
30	Kinetic analysis of tubulin exchange at microtubule ends at low vinblastine concentrations. Biochemistry, 1990, 29, 2730-2739.	1.2	81
31	Three- and Four-repeat Tau Regulate the Dynamic Instability of Two Distinct Microtubule Subpopulations in Qualitatively Different Manners. Journal of Biological Chemistry, 2005, 280, 13520-13528.	1.6	81
32	2-Methoxyestradiol suppresses microtubule dynamics and arrests mitosis without depolymerizing microtubules. Molecular Cancer Therapeutics, 2006, 5, 2225-2233.	1.9	76
33	In vitro pharmacology of cryptophycin 52 (LY355703) in human tumor cell lines. Cancer Chemotherapy and Pharmacology, 1999, 43, 115-125.	1.1	75
34	Chapter 15 The Use and Action of Drugs in Analyzing Mitosis. Methods in Cell Biology, 1998, 61, 267-295.	0.5	73
35	Antiproliferative Mechanism of Action of the Novel Taxane Cabazitaxel as Compared with the Parent Compound Docetaxel in MCF7 Breast Cancer Cells. Molecular Cancer Therapeutics, 2014, 13, 2092-2103.	1.9	68
36	Suppression of microtubule dynamic instability and turnover in MCF7 breast cancer cells by sulforaphane. Carcinogenesis, 2008, 29, 2360-2368.	1.3	62

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37	Interaction of the Antitumor Compound Cryptophycin-52 with Tubulinâ€. Biochemistry, 2000, 39, 14121-14127.	1.2	59
38	Suppression of centromere dynamics by Taxol in living osteosarcoma cells. Cancer Research, 2003, 63, 2794-801.	0.4	58
39	Modulation of CENP-E organization at kinetochores by spindle microtubule attachment. , 1996, 35, 121-133.		57
40	Mechanism of Action of the Microtubule-Targeted Antimitotic Depsipeptide Tasidotin (Formerly ILX651) and Its Major Metabolite Tasidotin C-Carboxylate. Cancer Research, 2007, 67, 3767-3776.	0.4	57
41	Carbendazim Inhibits Cancer Cell Proliferation by Suppressing Microtubule Dynamics. Journal of Pharmacology and Experimental Therapeutics, 2009, 328, 390-398.	1.3	55
42	Suppression of microtubule dynamics by discodermolide by a novel mechanism is associated with mitotic arrest and inhibition of tumor cell proliferation. Molecular Cancer Therapeutics, 2003, 2, 1303-11.	1.9	49
43	Suppression of Microtubule Dynamics by Binding of Cemadotin to Tubulin:â€‰ Possible Mechanism for Its Antitumor Action. Biochemistry, 1998, 37, 17571-17578.	1.2	38
44	Erucin, the Major Isothiocyanate in Arugula (Eruca sativa), Inhibits Proliferation of MCF7 Tumor Cells by Suppressing Microtubule Dynamics. PLoS ONE, 2014, 9, e100599.	1.1	38
45	FTDP-17 Mutations in Tau Alter the Regulation of Microtubule Dynamics. Journal of Biological Chemistry, 2008, 283, 36406-36415.	1.6	37
46	Structural Basis for Induction of Peripheral Neuropathy by Microtubule-Targeting Cancer Drugs. Cancer Research, 2016, 76, 5115-5123.	0.4	36
47	Effects of Tetramethoxystilbene on Hormone-Resistant Breast Cancer Cells: Biological and Biochemical Mechanisms of Action. Cancer Research, 2007, 67, 5717-5726.	0.4	33
48	Exploring the Mechanisms of Action of the Novel Microtubule Inhibitor Vinflunine. Seminars in Oncology, 2008, 35, S6-S12.	0.8	33
49	Mechanism of action of ixabepilone and its interactions with the Î²III-tubulin isotype. Cancer Chemotherapy and Pharmacology, 2015, 76, 1013-1024.	1.1	33
50	Combinatorial Tau Pseudophosphorylation. Journal of Biological Chemistry, 2011, 286, 14257-14270.	1.6	32
51	Characterization and detection of cellular and proteomic alterations in stable stathmin-overexpressing, taxol-resistant BT549 breast cancer cells using offgel IEF/PAGE difference gel electrophoresis. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2011, 722, 154-164.	0.9	30
52	Microtubule and tubulin binding and regulation of microtubule dynamics by the antibody drug conjugate (ADC) payload, monomethyl auristatin E (MMAE): Mechanistic insights into MMAE ADC peripheral neuropathy. Toxicology and Applied Pharmacology, 2021, 421, 115534.	1.3	30
53	Effects of Novel Taxanes SB-T-1213 and IDN5109 on Tubulin Polymerization and Mitosis. Chemistry and Biology, 2002, 9, 93-101.	6.2	29
54	Mechanisms of inhibition of endothelial cell migration by taxanes. Cytoskeleton, 2014, 71, 46-60.	1.0	29

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55	Determination of Microtubule Dynamic Instability in Living Cells. Methods in Cell Biology, 2010, 97, 1-14.	0.5	28
56	Effects of Paclitaxel and Eribulin in Mouse Sciatic Nerve: A Microtubule-Based Rationale for the Differential Induction of Chemotherapy-Induced Peripheral Neuropathy. Neurotoxicity Research, 2016, 29, 299-313.	1.3	27
57	The Neuroprotective Peptide NAP Does Not Directly Affect Polymerization or Dynamics of Reconstituted Neural Microtubules. Journal of Alzheimer's Disease, 2010, 19, 1377-1386.	1.2	26
58	Effects of Eribulin on Microtubule Binding and Dynamic Instability Are Strengthened in the Absence of the Î²III Tubulin Isotype. Biochemistry, 2015, 54, 6482-6489.	1.2	25
59	Microtubule-Targeting Agents Eribulin and Paclitaxel Differentially Affect Neuronal Cell Bodies in Chemotherapy-Induced Peripheral Neuropathy. Neurotoxicity Research, 2017, 32, 151-162.	1.3	20
60	Î²III-tubulin enhances efficacy of cabazitaxel as compared with docetaxel. Cancer Chemotherapy and Pharmacology, 2017, 80, 151-164.	1.1	14
61	Determination of Drug Binding to Microtubules In Vitro. Methods in Cell Biology, 2010, 95, 289-299.	0.5	11
62	Microtubule Dynamics. , 2008, , 47-81.		9
63	Modeling the effects of drug binding on the dynamic instability of microtubules. Physical Biology, 2011, 8, 056004.	0.8	6
64	Modulation of CENP-E organization at kinetochores by spindle microtubule attachment. , 1996, 35, 121.		1