Ernest Hamel

List of Publications by Citations

55 papers	3,206 citations	27 h-index	56 g-index
56 ext. papers	3,441 ext. citations	5.5 avg, IF	4.89 L-index

#	Paper	IF	Citations
55	Antimitotic natural products combretastatin A-4 and combretastatin A-2: studies on the mechanism of their inhibition of the binding of colchicine to tubulin. *Biochemistry*, **1989**, 28, 6984-91	3.2	394
54	Antimitotic natural products and their interactions with tubulin. *Medicinal Research Reviews*, **1996**, 16, 207-31	14.4	270
53	Structure-activity analysis of the interaction of curacin A, the potent colchicine site antimitotic agent, with tubulin and effects of analogs on the growth of MCF-7 breast cancer cells. *Molecular Pharmacology*, **1998**, 53, 62-76	4.3	245
52	A common pharmacophore for a diverse set of colchicine site inhibitors using a structure-based approach. *Journal of Medicinal Chemistry*, **2005**, 48, 6107-16	8.3	243
51	Evaluation of antimitotic agents by quantitative comparisons of their effects on the polymerization of purified tubulin. *Cell Biochemistry and Biophysics*, **2003**, 38, 1-22	3.2	227
50	Separation of active tubulin and microtubule-associated proteins by ultracentrifugation and isolation of a component causing the formation of microtubule bundles. *Biochemistry*, **1984**, 23, 4173-84	3.2	222
49	Synthesis and evaluation of analogues of (Z)-1-(4-methoxyphenyl)-2-(3,4,5-trimethoxyphenyl)ethene as potential cytotoxic and antimitotic agents. *Journal of Medicinal Chemistry*, **1992**, 35, 2293-306	8.3	210
48	Arylthioindole inhibitors of tubulin polymerization. 3. Biological evaluation, structure-activity relationships and molecular modeling studies. *Journal of Medicinal Chemistry*, **2007**, 50, 2865-74	8.3	157
47	Antitumor agents. 174. 2′,3′,4′,5,6,7-Substituted 2-phenyl-1,8-naphthyridin-4-ones: their synthesis, cytotoxicity, and inhibition of tubulin polymerization. *Journal of Medicinal Chemistry*, **1997**, 40, 2266-75	8.3	81
46	Interactions of 2-methoxyestradiol, an endogenous mammalian metabolite, with unpolymerized tubulin and with tubulin polymers. *Biochemistry*, **1996**, 35, 1304-10	3.2	78
45	Convergent synthesis and biological evaluation of 2-amino-4-(3′,4′,5′-trimethoxyphenyl)-5-aryl thiazoles as microtubule targeting agents. *Journal of Medicinal Chemistry*, **2011**, 54, 5144-53	8.3	74
44	A boronic acid chalcone analog of combretastatin A-4 as a potent anti-proliferation agent. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 971-7	3.4	74
43	Antitumor agents. 178. Synthesis and biological evaluation of substituted 2-aryl-1,8-naphthyridin-4(1H)-ones as antitumor agents that inhibit tubulin polymerization. *Journal of Medicinal Chemistry*, **1997**, 40, 3049-56	8.3	74
42	Synthesis and biological evaluation of 2-acyl analogues of paclitaxel (Taxol). *Journal of Medicinal Chemistry*, **1998**, 41, 3715-26	8.3	66
41	4,5-Diaryl-1H-pyrrole-2-carboxylates as combretastatin A-4/lamellarin T hybrids: synthesis and evaluation as anti-mitotic and cytotoxic agents. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 4627-38	3.4	66
40	Convergent syntheses of the pyrrolic marine natural productslamellarin-O, lamellarin-Q, lukianol-A and some more highly oxygenatedcongeners. *Chemical Communications*, **1997**, 207-208	5.8	57
39	Synthesis and discovery of water-soluble microtubule targeting agents that bind to the colchicine site on tubulin and circumvent Pgp mediated resistance. *Journal of Medicinal Chemistry*, **2010**, 53, 8116-28	8.3	54

38	Synthesis and evaluation of diaryl sulfides and diaryl selenide compounds for antitubulin and cytotoxic activity. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 4669-73	2.9	52
37	Discovery and optimization of a series of 2-aryl-4-amino-5-(3′,4′,5′-trimethoxybenzoyl)thiazoles as novel anticancer agents. *Journal of Medicinal Chemistry*, **2012**, 55, 5433-45	8.3	49
36	Synthesis, antimitotic and antivascular activity of 1-(3′,4′,5′-trimethoxybenzoyl)-3-arylamino-5-amino-1,2,4-triazoles. *Journal of Medicinal Chemistry*, **2014**, 57, 6795-808	8.3	39
35	Design, synthesis, in vitro, and in vivo anticancer and antiangiogenic activity of novel 3-arylaminobenzofuran derivatives targeting the colchicine site on tubulin. *Journal of Medicinal Chemistry*, **2015**, 58, 3209-22	8.3	37
34	Concise synthesis and biological evaluation of 2-Aroyl-5-amino benzo[b]thiophene derivatives as a novel class of potent antimitotic agents. *Journal of Medicinal Chemistry*, **2013**, 56, 9296-309	8.3	37
33	Design, synthesis, and biological evaluation of water-soluble amino acid prodrug conjugates derived from combretastatin, dihydronaphthalene, and benzosuberene-based parent vascular disrupting agents. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 938-956	3.4	30
32	The magnesium-GTP interaction in microtubule assembly. *FEBS Journal*, **1994**, 222, 163-72		30
31	Design, synthesis and biological evaluation of 3,5-disubstituted 2-amino thiophene derivatives as a novel class of antitumor agents. *Bioorganic and Medicinal Chemistry*, **2014**, 22, 5097-109	3.4	29
30	A diaryl sulfide, sulfoxide, and sulfone bearing structural similarities to combretastatin A-4. *European Journal of Medicinal Chemistry*, **2009**, 44, 2685-8	6.8	29
29	One-pot synthesis and biological evaluation of 2-pyrrolidinyl-4-amino-5-(3′,4′,5′-trimethoxybenzoyl)thiazole: a unique, highly active antimicrotubule agent. *European Journal of Medicinal Chemistry*, **2011**, 46, 6015-24	6.8	27
28	Colchicine Models: Synthesis and Binding to Tubulin of Tertamethoxybiphenyls. *Helvetica Chimica Acta*, **1988**, 71, 1199-1209	2	26
27	Structure-activity relationship and in vitro and in vivo evaluation of the potent cytotoxic anti-microtubule agent N-(4-methoxyphenyl)-N,2,6-trimethyl-6,7-dihydro-5H-cyclopenta[d]pyrimidin-4-aminium chloride and its analogues as antitumor agents. *Journal of Medicinal Chemistry*, **2013**, 56, 1329-44	8.3	21
26	Limitations in the use of tubulin polymerization assays as a screen for the identification of new antimitotic agents: The potent marine natural product curacin A as an example. *Drug Development Research*, **1995**, 34, 110-120	5.1	21
25	An Amino-Benzosuberene Analogue That Inhibits Tubulin Assembly and Demonstrates Remarkable Cytotoxicity. *MedChemComm*, **2012**, 3, 720-724	5	20
24	Pyrrolo[2′,3′:3,4]cyclohepta[1,2-][1,2]oxazoles, a New Class of Antimitotic Agents Active against Multiple Malignant Cell Types. *Journal of Medicinal Chemistry*, **2020**, 63, 12023-12042	8.3	20
23	Synthesis and biological activities of (R)- and (S)-N-(4-Methoxyphenyl)-N,2,6-trimethyl-6,7-dihydro-5H-cyclopenta[d]pyrimidin-4-aminium chloride as potent cytotoxic antitubulin agents. *Journal of Medicinal Chemistry*, **2011**, 54, 6151-5	8.3	17
22	Structural interrogation of benzosuberene-based inhibitors of tubulin polymerization. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7497-520	3.4	16
21	Insight on [1,3]thiazolo[4,5-e]isoindoles as tubulin polymerization inhibitors. *European Journal of Medicinal Chemistry*, **2021**, 212, 113122	6.8	14

20	Synthesis of dihydronaphthalene analogues inspired by combretastatin A-4 and their biological evaluation as anticancer agents. *MedChemComm*, **2018**, 9, 1649-1662	5	11
19	Structure based drug design and in vitro metabolism study: Discovery of N-(4-methylthiophenyl)-N,2-dimethyl-cyclopenta[d]pyrimidine as a potent microtubule targeting agent. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 2437-2451	3.4	9
18	Colchicine models: Synthesis and Antitubulin Activity of 2?-Monosubstituted and 2?, 5-Disubstituted 2,3,4,4?-Tetramethoxy-1,1?-biphenyls. Synthesis of 4,4?, 5?, 6?-tetramethoxy-1,1?-biphenyl-2,3?-dicarboxylic acid. *Helvetica Chimica Acta*, **1989**, 72, 196-204	2	9
17	Deciphering the key heterocyclic scaffolds in targeting microtubules, kinases and carbonic anhydrases for cancer drug development. *Pharmacology & Therapeutics*, **2021**, 225, 107860	13.9	9
16	Discovery and preclinical evaluation of 7-benzyl-N-(substituted)-pyrrolo[3,2-d]pyrimidin-4-amines as single agents with microtubule targeting effects along with triple-acting angiokinase inhibition as antitumor agents. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 545-556	3.4	8
15	Design, synthesis, and structure-activity relationships of pyrimido[4,5-b]indole-4-amines as microtubule depolymerizing agents that are effective against multidrug resistant cells. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 3423-3430	2.9	7
14	Diaryl disulfides and thiosulfonates as combretastatin A-4 analogues: Synthesis, cytotoxicity and antitubulin activity. *Bioorganic Chemistry*, **2020**, 101, 104017	5.1	7
13	Effects of substituent pattern on the intracellular target of antiproliferative benzo[b]thiophenyl chromone derivatives. *European Journal of Medicinal Chemistry*, **2021**, 222, 113578	6.8	7
12	Synthesis and biological evaluation of structurally diverse E-conformationally restricted chalcones and related analogues. *MedChemComm*, **2019**, 10, 1445-1456	5	6
11	Antimitotic natural products and their interactions with tubulin **1996**, 16, 207		6
10	A facile synthesis of diaryl pyrroles led to the discovery of potent colchicine site antimitotic agents. *European Journal of Medicinal Chemistry*, **2021**, 214, 113229	6.8	5
9	Sterically induced conformational restriction: Discovery and preclinical evaluation of novel pyrrolo[3,2-d]pyrimidines as microtubule targeting agents. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 5470-5478	3.4	4
8	Synthesis of 14C labelled electrophilic ligands of the colchicine binding site of tubulin: Chloroacetates of demethylthiocolchicines and of N-acetylcolchinol; isothiocyanate of 9-deoxy-N-acetylcolchinol. *Journal of Labelled Compounds and Radiopharmaceuticals*, **1993**, 33, 293-299	1.9	3
7	Discovery of pyrrole derivatives for the treatment of glioblastoma and chronic myeloid leukemia. *European Journal of Medicinal Chemistry*, **2021**, 221, 113532	6.8	3
6	Novel pyrazolo[4,3-d]pyrimidine microtubule targeting agents (MTAs): Synthesis, structure-activity relationship, in vitro and in vivo evaluation as antitumor agents. *Bioorganic and Medicinal Chemistry Letters*, **2021**, 41, 127923	2.9	2
5	The 3-D conformational shape of N-naphthyl-cyclopenta[d]pyrimidines affects their potency as microtubule targeting agents and their antitumor activity. *Bioorganic and Medicinal Chemistry*, **2021**, 29, 115887	3.4	2
4	S-(4-Methoxyphenyl)-4-methoxybenzenesulfonothioate as a Promising Lead Compound for the Development of a Renal Carcinoma Agent. *ChemMedChem*, **2020**, 15, 449-458	3.7	1
3	Potential of substituted quinazolines to interact with multiple targets in the treatment of cancer. *Bioorganic and Medicinal Chemistry*, **2021**, 35, 116061	3.4	1

2	Concise synthesis and biological evaluation of 2-Aryl-3-Anilinobenzo[b]thiophene derivatives as potent apoptosis-inducing agents. *Bioorganic Chemistry*, **2021**, 112, 104919	5.1	0
1	Synthesis and Biological Evaluation of Highly Active 7-Anilino Triazolopyrimidines as Potent Antimicrotubule Agents. *Pharmaceutics*, **2022**, 14, 1191	6.4	0