David E Thurston

List of Publications by Year
in descending order

79 papers	3,746 citations	147801 31 h-index	128289 60 g-index
79 all docs	79 docs citations	79 times ranked	2275 citing authors

#	Article	IF	Citations
1	Novel pyrrolobenzodiazepine benzofused hybrid molecules inhibit NF-Î²B activity and synergise with bortezomib and ibrutinib in hematological cancers. Haematologica, 2021, 106, 958-967.	3.5	4
2	Translational aspects of biologicals: monoclonal antibodies and antibody-drug conjugates as examples. , 2021, , 329-350.		0
3	A Novel Antibody-Drug Conjugate (ADC) Delivering a DNA Mono-Alkylating Payload to Chondroitin Sulfate Proteoglycan (CSPG4)-Expressing Melanoma. Cancers, 2020, 12, 1029.	3.7	22
4	UPLC-based assay to assess the hydrophobicity of Antibody-Drug Conjugate (ADC) payloads. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1146, 122075.	2.3	7
5	Effects of Systematic Shortening of Noncovalent C8 Side Chain on the Cytotoxicity and NF-Î²B Inhibitory Capacity of Pyrrolobenzodiazepines (PBDs). Journal of Medicinal Chemistry, 2019, 62, 2127-2139.	6.4	17
6	CHAPTER 1. Introduction to Antibodyâ€“Drug Conjugates (ADCs). RSC Drug Discovery Series, 2019, , 1-30.	0.3	12
7	Methylene-linked bis-phenylbenzimidazoles â€“ a new scaffold to target telomeric DNA/RNA hybrid duplex. Organic and Biomolecular Chemistry, 2018, 16, 4424-4428.	2.8	3
8	Formation of a Novel C11-Acetone Adduct of a Pyrrolobenzodiazepine (PBD) with Loss of Cytotoxicity. Synlett, 2018, 29, 1112-1116.	1.8	1
9	Antibody structure and engineering considerations for the design and function of Antibody Drug Conjugates (ADCs). Oncolmmunology, 2018, 7, e1395127.	4.6	117
10	Use of pyrrolobenzodiazepines and related covalent-binding DNA-interactive molecules as ADC payloads: Is mechanism related to systemic toxicity?. Drug Discovery Today: Technologies, 2018, 30, 71-83.	4.0	27
11	Topical delivery of anthramycin II. Influence of binary and ternary solvent systems. European Journal of Pharmaceutical Sciences, 2018, 121, 59-64.	4.0	13
12	Abstract 736: Pyridinobenzodiazepines (PDDs): A new class of sequence-selective DNA mono-alkylating ADC payloads with low hydrophobicity. Cancer Research, 2018, 78, 736-736.	0.9	4
13	Topical delivery of anthramycin I. Influence of neat solvents. European Journal of Pharmaceutical Sciences, 2017, 104, 188-195.	4.0	28
14	Sequence-selective binding of C8-conjugated pyrrolobenzodiazepines (PBDs) to DNA. Biophysical Chemistry, 2017, 230, 53-61.	2.8	4
15	Entwicklung Pyrrolobenzodiazepin(PBD)â€haltiger AntikÃ¶rperâ€Wirkstoffâ€Konjugate (ADCs) ausgehend von Anthramycin. Angewandte Chemie, 2017, 129, 474-502.	2.0	13
16	From Anthramycin to Pyrrolobenzodiazepine (PBD)â€Containing Antibodyâ€“Drug Conjugates (ADCs). Angewandte Chemie - International Edition, 2017, 56, 462-488.	13.8	197
17	Recent advances in targeting the telomeric G-quadruplex DNA sequence with small molecules as a strategy for anticancer therapies. Future Medicinal Chemistry, 2016, 8, 1259-1290.	2.3	56
18	Abstract 4779: In silico design, synthesis and evaluation of a new family of C1-substituted pyrrolobenzodiazepines (PBDs). Cancer Research, 2016, 76, 4779-4779.	0.9	3

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19	Covalent Bonding of Pyrrolobenzodiazepines (PBDs) to Terminal Guanine Residues within Duplex and Hairpin DNA Fragments. PLoS ONE, 2016, 11, e0152303.	2.5	13
20	Effect of hairpin loop structure on reactivity, sequence preference and adduct orientation of a DNA-interactive pyrrolo[2,1-c][1,4]benzodiazepine (PBD) antitumour agent. Organic and Biomolecular Chemistry, 2015, 13, 4031-4040.	2.8	9
21	Activity of the DNA minor groove cross-linking agent SG2000 (SJG-136) against canine tumours. BMC Veterinary Research, 2015, 11, 215.	1.9	8
22	Pyrrolobenzodiazepines (PBDs) Do Not Bind to DNA G-Quadruplexes. PLoS ONE, 2014, 9, e105021.	2.5	10
23	Computational Studies Support the Role of the C7-Sibirosamine Sugar of the Pyrrolobenzodiazepine (PBD) Sibiromycin in Transcription Factor Inhibition. ACS Chemical Biology, 2014, 9, 2432-2440.	3.4	15
24	Abstract 5329: Molecular dynamics simulations of sibiromycin suggest a role for the c7-sugar in transcription factor inhibition. Cancer Research, 2014, 74, 5329-5329.	0.9	3
25	Abstract 5370: Use of molecular dynamics simulations to rationalise the DNA sequence-selectivity of pyrrolobenzodiazepine-MPB conjugates. Cancer Research, 2014, 74, 5370-5370.	0.9	4
26	An Extended Pyrrolobenzodiazepineâ€“Polyamide Conjugate with Selectivity for a DNA Sequence Containing the ICB2 Transcription Factor Binding Site. Journal of Medicinal Chemistry, 2013, 56, 6339-6351.	6.4	30
27	A Potent Anti-CD70 Antibodyâ€“Drug Conjugate Combining a Dimeric Pyrrolobenzodiazepine Drug with Site-Specific Conjugation Technology. Bioconjugate Chemistry, 2013, 24, 1256-1263.	3.6	226
28	GC-Targeted C8-Linked Pyrrolobenzodiazepineâ€“Biaryl Conjugates with Femtomolar in Vitro Cytotoxicity and in Vivo Antitumor Activity in Mouse Models. Journal of Medicinal Chemistry, 2013, 56, 2911-2935.	6.4	50
29	Abstract 1129: GC-t8-linked pyrrolobenzodiazepine (PBD)-biaryl conjugates with femptomolar in vitro cytotoxicity and in vivo antitumour activity in mouse models of pancreatic and breast cancer.. Cancer Research, 2013, 73, 1129-1129.	0.9	5
30	Antistaphylococcal activity of DNA-interactive pyrrolobenzodiazepine (PBD) dimers and PBD-biaryl conjugates. Journal of Antimicrobial Chemotherapy, 2012, 67, 1683-1696.	3.0	23
31	The prenylated dioxopiperazine alkaloid Cristatin A has selective telomeric DNA G-quadruplex stabilising properties. Chemical Communications, 2012, 48, 8760.	4.1	7
32	DNA interstrand cross-linking and in vivo antitumor activity of the extended pyrrolo[2,1-c][1,4]benzodiazepine dimer SG2057. Investigational New Drugs, 2012, 30, 950-958.	2.6	31
33	Identification of novel telomeric G-quadruplex-targeting chemical scaffolds through screening of three NCI libraries. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3006-3010.	2.2	29
34	Synthesis of DNA-Interactive Pyrrolo[2,1-c][1,4]benzodiazepines (PBDs). Chemical Reviews, 2011, 111, 2815-2864.	47.7	173
35	Observation of a Single-Stranded DNA/Pyrrolobenzodiazepine Adduct. Journal of the American Chemical Society, 2011, 133, 19376-19385.	13.7	26
36	Observation of the reversibility of a covalent pyrrolobenzodiazepine (PBD) DNA adduct by HPLC/MS and CD spectroscopy. Organic and Biomolecular Chemistry, 2011, 9, 1632.	2.8	26

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37	Pharmacokinetics, pharmacodynamics and metabolism of the dimeric pyrrolobenzodiazepine SJG-136 in rats. Cancer Chemotherapy and Pharmacology, 2011, 68, 777-786.	2.3	10
38	Novel C8-linked pyrrolobenzodiazepine (PBD)â€“heterocycle conjugates that recognize DNA sequences containing an inverted CCAAT box. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3780-3783.	2.2	19
39	Effect of base sequence on the DNA cross-linking properties of pyrrolobenzodiazepine (PBD) dimers. Nucleic Acids Research, 2011, 39, 5800-5812.	14.5	38
40	The minor groove-binding agent ELB-21 forms multiple interstrand and intrastrand covalent cross-links with duplex DNA and displays potent bactericidal activity against methicillin-resistant Staphylococcus aureus. Journal of Antimicrobial Chemotherapy, 2011, 66, 985-996.	3.0	16
41	SG2285, a Novel C2-Aryl-Substituted Pyrrolobenzodiazepine Dimer Prodrug That Cross-links DNA and Exerts Highly Potent Antitumor Activity. Cancer Research, 2010, 70, 6849-6858.	0.9	55
42	DNA Sequence Preference and Adduct Orientation of Pyrrolo[2,1-c][1,4]benzodiazepine Antitumor Agents. ACS Medicinal Chemistry Letters, 2010, 1, 427-432.	2.8	36
43	Biaryl polyamides as a new class of DNA quadruplex-binding ligands. Chemical Communications, 2009, , 4097.	4.1	40
44	The Pyrrolobenzodiazepine Dimer SJG-136 Forms Sequence-Dependent Intrastrand DNA Cross-Links and Monoalkylated Adducts in Addition to Interstrand Cross-Links. Journal of the American Chemical Society, 2009, 131, 13756-13766.	13.7	69
45	Observation of a dynamic equilibrium between DNA hairpin and duplex forms of covalent adducts of a minor groove binding agent. Chemical Communications, 2009, , 227-229.	4.1	13
46	Welcome to Future Medicinal Chemistry. Future Medicinal Chemistry, 2009, 1, 1-2.	2.3	4
47	Fluorescent 7-diethylaminocoumarin pyrrolobenzodiazepine conjugates: Synthesis, DNA interaction, cytotoxicity and differential cellular localization. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2147-2151.	2.2	29
48	An assay combining high-performance liquid chromatography and mass spectrometry to measure DNA interstrand cross-linking efficiency in oligonucleotides of varying sequences. Analytical Biochemistry, 2008, 374, 173-181.	2.4	21
49	Inhibition of DNA binding of the NF-Y transcription factor by the pyrrolobenzodiazepine-polyamide conjugate GWL-78. Molecular Cancer Therapeutics, 2008, 7, 1319-1328.	4.1	52
50	Fludarabine-mediated suppression of the excision repair enzyme ERCC1 contributes to the cytotoxic synergy with the DNA minor groove crosslinking agent SJG-136 (NSC 694501) in chronic lymphocytic leukaemia cells. British Journal of Cancer, 2007, 97, 253-259.	6.4	20
51	Synthesis of a novel C2-aryl pyrrolo[2,1-c][1,4]benzodiazepine-5,11-dione library: Effect of C2-aryl substitution on cytotoxicity and non-covalent DNA binding. Bioorganic and Medicinal Chemistry, 2007, 15, 3041-3053.	3.0	31
52	Design, Synthesis, and Biophysical and Biological Evaluation of a Series of Pyrrolobenzodiazepineâ˜Poly(N-methylpyrrole) Conjugates. Journal of Medicinal Chemistry, 2006, 49, 5442-5461.	6.4	70
53	Time-dependent cytotoxicity induced by SJG-136 (NSC 694501): influence of the rate of interstrand cross-link formation on DNA damage signaling. Molecular Cancer Therapeutics, 2006, 5, 1602-1609.	4.1	16
54	The XPF-ERCC1 endonuclease and homologous recombination contribute to the repair of minor groove DNA interstrand crosslinks in mammalian cells produced by the pyrrolo[2,1-c][1,4]benzodiazepine dimer SJG-136. Nucleic Acids Research, 2005, 33, 3283-3291.	14.5	65

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55	Direct liquid chromatography determination of the reactive imine SJG-136 (NSC 694501). Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 822, 10-20.	2.3	11
56	Pyrrolobenzodiazepine dimers: novel sequence-selective, DNA-interactive, cross-linking agents with activity against Gram-positive bacteria. Journal of Antimicrobial Chemotherapy, 2005, 56, 513-518.	3.0	29
57	Sequence-Selective Interaction of the Minor-Groove Interstrand Cross-Linking Agent SJG-136 with Naked and Cellular DNA:Â Footprinting and Enzyme Inhibition Studiesâ€. Biochemistry, 2005, 44, 4135-4147.	2.5	44
58	Influence of P-glycoprotein expression on in vitro cytotoxicity and in vivo antitumour activity of the novel pyrrolobenzodiazepine dimer SJG-136. European Journal of Cancer, 2005, 41, 1811-1818.	2.8	23
59	SJG-136 (NSC 694501), A Novel Rationally Designed DNA Minor Groove Interstrand Cross-Linking Agent with Potent and Broad Spectrum Antitumor Activity. Cancer Research, 2004, 64, 6700-6706.	0.9	82
60	SJG-136 (NSC 694501), a Novel Rationally Designed DNA Minor Groove Interstrand Cross-Linking Agent with Potent and Broad Spectrum Antitumor Activity. Cancer Research, 2004, 64, 6693-6699.	0.9	123
61	Preliminary pharmacokinetic and bioanalytical studies of SJG-136 (NSC 694501), a sequence-selective pyrrolobenzodiazepine dimer DNA-cross-linking agent. Investigational New Drugs, 2004, 22, 231-240.	2.6	20
62	Linker Length Modulates DNA Cross-Linking Reactivity and Cytotoxic Potency of C8/C8â€˜ Ether-Linked C2-exo-Unsaturated Pyrrolo[2,1-c][1,4]benzodiazepine (PBD) Dimers. Journal of Medicinal Chemistry, 2004, 47, 1161-1174.	6.4	93
63	Synthesis of the first examples of A-C8/C-C2 amide-Linked pyrrolo[2,1-c][1,4]benzodiazepine dimers. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2277-2280.	2.2	22
64	Sequence-Selective Recognition of Duplex DNA through Covalent Interstrand Cross-Linking:â€‰ Kinetic and Molecular Modeling Studies with Pyrrolobenzodiazepine Dimers. Biochemistry, 2003, 42, 8232-8239.	2.5	57
65	Design, Synthesis, and Evaluation of a Novel Pyrrolobenzodiazepine DNA-Interactive Agent with Highly Efficient Cross-Linking Ability and Potent Cytotoxicity. Journal of Medicinal Chemistry, 2001, 44, 737-748.	6.4	187
66	Effect of A-Ring Modifications on the DNA-Binding Behavior and Cytotoxicity of Pyrrolo[2,1-c][1,4]benzodiazepinesâ€. Journal of Medicinal Chemistry, 1999, 42, 1951-1964.	6.4	87
67	Synthesis, in Vitro Antiproliferative Activity, and DNA-Binding Properties of Hybrid Molecules Containing Pyrrolo[2,1-c][1,4]benzodiazepine and Minor-Groove-Binding Oligopyrrole Carriers. Journal of Medicinal Chemistry, 1999, 42, 5131-5141.	6.4	64
68	Inhibition of Bacteriophage T7 RNA PolymeraseinVitroTranscription by DNA-Binding Pyrrolo[2,1-c][1,4]benzodiazepinesâ€. Biochemistry, 1997, 36, 2478-2484.	2.5	88
69	Preclinical pharmacology and antitumour activity of the novel sequence-selective DNA minor-groove cross-linking agent DSB-120. Cancer Chemotherapy and Pharmacology, 1996, 38, 431-438.	2.3	28
70	Synthesis of DNA-Interactive Pyrrolo[2,1-c][1,4]benzodiazepines. Chemical Reviews, 1994, 94, 433-465.	47.7	270
71	Structure of a Covalent DNA Minor Groove Adduct with a Pyrrolobenzodiazepine Dimer: Evidence for Sequence-Specific Interstrand Crosslinking. Journal of Medicinal Chemistry, 1994, 37, 4529-4537.	6.4	87
72	A quantitative assay to measure the relative DNA-binding affinity of pyrrolo[2,1-c][1,4]benzodiazepine (PBD) antitumour antibiotics based on the inhibition of restriction endonucleaseBamhI. Nucleic Acids Research, 1993, 21, 3671-3675.	14.5	78

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73	Advances in the Study of Pyrrolo[2,1-c] [1,4]benzodiazepine (PBD) Antitumour Antibiotics. , 1993, , 54-88.		75
74	Rational design of a highly efficient irreversible DNA interstrand cross-linking agent based on the pyrrolobenzodiazepine ring system. Journal of the American Chemical Society, 1992, 114, 4939-4941.	13.7	147
75	Effect of linker length on DNA-binding affinity, cross-linking efficiency and cytotoxicity of C8-linked pyrrolobenzodiazepine dimers. Journal of the Chemical Society Chemical Communications, 1992, , 1518.	2.0	68
76	Evaluation of the electrophilicity of DNA-binding pyrrolo(2,1-c)(1,4)benzodiazepines by HPLC.. Journal of Antibiotics, 1990, 43, 1286-1292.	2.0	30
77	Synthesis and reactivity of a novel oxazolo[2, 3-c][1,4]benzodiazepine ring system with DNA recognition potential: a new class of anthramycins. Journal of the Chemical Society Chemical Communications, 1990, , 874.	2.0	19
78	Pyrrolo[1,4]benzodiazepine antitumor antibiotics: relationship of DNA alkylation and sequence specificity to the biological activity of natural and synthetic compounds. Chemical Research in Toxicology, 1988, 1, 258-268.	3.3	144
79	Pyrrolo[1,4]benzodiazepine antitumor antibiotics: evidence for two forms of tomaymycin bound to DNA. Biochemistry, 1986, 25, 3021-3031.	2.5	50