

David E Thurston

List of Publications by Year in descending order

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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 | Synthesis of DNA-Interactive Pyrrolo[2,1-c][1,4]benzodiazepines. <i>Chemical Reviews</i> , 1994, 94, 433-465. | 47.7 | 270 |
| 2 | A Potent Anti-CD70 Antibody-Drug Conjugate Combining a Dimeric Pyrrolobenzodiazepine Drug with Site-Specific Conjugation Technology. <i>Bioconjugate Chemistry</i> , 2013, 24, 1256-1263. | 3.6 | 226 |
| 3 | From Anthramycin to Pyrrolobenzodiazepine (PBD)-Containing Antibody-Drug Conjugates (ADCs). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 462-488. | 13.8 | 197 |
| 4 | Design, Synthesis, and Evaluation of a Novel Pyrrolobenzodiazepine DNA-Interactive Agent with Highly Efficient Cross-Linking Ability and Potent Cytotoxicity. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 737-748. | 6.4 | 187 |
| 5 | Synthesis of DNA-Interactive Pyrrolo[2,1-c][1,4]benzodiazepines (PBDs). <i>Chemical Reviews</i> , 2011, 111, 2815-2864. | 47.7 | 173 |
| 6 | Rational design of a highly efficient irreversible DNA interstrand cross-linking agent based on the pyrrolobenzodiazepine ring system. <i>Journal of the American Chemical Society</i> , 1992, 114, 4939-4941. | 13.7 | 147 |
| 7 | Pyrrolo[1,4]benzodiazepine antitumor antibiotics: relationship of DNA alkylation and sequence specificity to the biological activity of natural and synthetic compounds. <i>Chemical Research in Toxicology</i> , 1988, 1, 258-268. | 3.3 | 144 |
| 8 | SJG-136 (NSC 694501), a Novel Rationally Designed DNA Minor Groove Interstrand Cross-Linking Agent with Potent and Broad Spectrum Antitumor Activity. <i>Cancer Research</i> , 2004, 64, 6693-6699. | 0.9 | 123 |
| 9 | Antibody structure and engineering considerations for the design and function of Antibody Drug Conjugates (ADCs). <i>Oncimmunology</i> , 2018, 7, e1395127. | 4.6 | 117 |
| 10 | Linker Length Modulates DNA Cross-Linking Reactivity and Cytotoxic Potency of C8/C8-Ether-Linked C2-exo-Unsaturated Pyrrolo[2,1-c][1,4]benzodiazepine (PBD) Dimers. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1161-1174. | 6.4 | 93 |
| 11 | Inhibition of Bacteriophage T7 RNA Polymerase <i>in Vitro</i> Transcription by DNA-Binding Pyrrolo[2,1-c][1,4]benzodiazepines. <i>Biochemistry</i> , 1997, 36, 2478-2484. | 2.5 | 88 |
| 12 | Structure of a Covalent DNA Minor Groove Adduct with a Pyrrolobenzodiazepine Dimer: Evidence for Sequence-Specific Interstrand Crosslinking. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 4529-4537. | 6.4 | 87 |
| 13 | Effect of A-Ring Modifications on the DNA-Binding Behavior and Cytotoxicity of Pyrrolo[2,1-c][1,4]benzodiazepines. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 1951-1964. | 6.4 | 87 |
| 14 | SJG-136 (NSC 694501), A Novel Rationally Designed DNA Minor Groove Interstrand Cross-Linking Agent with Potent and Broad Spectrum Antitumor Activity. <i>Cancer Research</i> , 2004, 64, 6700-6706. | 0.9 | 82 |
| 15 | A quantitative assay to measure the relative DNA-binding affinity of pyrrolo[2,1-c][1,4]benzodiazepine (PBD) antitumor antibiotics based on the inhibition of restriction endonuclease BamHI. <i>Nucleic Acids Research</i> , 1993, 21, 3671-3675. | 14.5 | 78 |
| 16 | Advances in the Study of Pyrrolo[2,1-c][1,4]benzodiazepine (PBD) Antitumor Antibiotics. , 1993, , 54-88. | | 75 |
| 17 | Design, Synthesis, and Biophysical and Biological Evaluation of a Series of Pyrrolobenzodiazepine-Poly(N-methylpyrrole) Conjugates. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 5442-5461. | 6.4 | 70 |
| 18 | The Pyrrolobenzodiazepine Dimer SJG-136 Forms Sequence-Dependent Intrastrand DNA Cross-Links and Monoalkylated Adducts in Addition to Interstrand Cross-Links. <i>Journal of the American Chemical Society</i> , 2009, 131, 13756-13766. | 13.7 | 69 |

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|----|--|------|-----------|
| 19 | Effect of linker length on DNA-binding affinity, cross-linking efficiency and cytotoxicity of C8-linked pyrrolobenzodiazepine dimers. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1518. | 2.0 | 68 |
| 20 | 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. <i>Nucleic Acids Research</i> , 2005, 33, 3283-3291. | 14.5 | 65 |
| 21 | 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. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 5131-5141. | 6.4 | 64 |
| 22 | Sequence-Selective Recognition of Duplex DNA through Covalent Interstrand Cross-Linking: Kinetic and Molecular Modeling Studies with Pyrrolobenzodiazepine Dimers. <i>Biochemistry</i> , 2003, 42, 8232-8239. | 2.5 | 57 |
| 23 | Recent advances in targeting the telomeric G-quadruplex DNA sequence with small molecules as a strategy for anticancer therapies. <i>Future Medicinal Chemistry</i> , 2016, 8, 1259-1290. | 2.3 | 56 |
| 24 | SG2285, a Novel C2-Aryl-Substituted Pyrrolobenzodiazepine Dimer Prodrug That Cross-links DNA and Exerts Highly Potent Antitumor Activity. <i>Cancer Research</i> , 2010, 70, 6849-6858. | 0.9 | 55 |
| 25 | Inhibition of DNA binding of the NF-Y transcription factor by the pyrrolobenzodiazepine-polyamide conjugate CWL-78. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 1319-1328. | 4.1 | 52 |
| 26 | Pyrrolo[1,4]benzodiazepine antitumor antibiotics: evidence for two forms of tomaymycin bound to DNA. <i>Biochemistry</i> , 1986, 25, 3021-3031. | 2.5 | 50 |
| 27 | GC-Targeted C8-Linked Pyrrolobenzodiazepine-Biaryl Conjugates with Femtomolar in Vitro Cytotoxicity and in Vivo Antitumor Activity in Mouse Models. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2911-2935. | 6.4 | 50 |
| 28 | Sequence-Selective Interaction of the Minor-Groove Interstrand Cross-Linking Agent SJG-136 with Naked and Cellular DNA: Footprinting and Enzyme Inhibition Studies. <i>Biochemistry</i> , 2005, 44, 4135-4147. | 2.5 | 44 |
| 29 | Biaryl polyamides as a new class of DNA quadruplex-binding ligands. <i>Chemical Communications</i> , 2009, , 4097. | 4.1 | 40 |
| 30 | Effect of base sequence on the DNA cross-linking properties of pyrrolobenzodiazepine (PBD) dimers. <i>Nucleic Acids Research</i> , 2011, 39, 5800-5812. | 14.5 | 38 |
| 31 | DNA Sequence Preference and Adduct Orientation of Pyrrolo[2,1-c][1,4]benzodiazepine Antitumor Agents. <i>ACS Medicinal Chemistry Letters</i> , 2010, 1, 427-432. | 2.8 | 36 |
| 32 | 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. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 3041-3053. | 3.0 | 31 |
| 33 | DNA interstrand cross-linking and in vivo antitumor activity of the extended pyrrolo[2,1-c][1,4]benzodiazepine dimer SG2057. <i>Investigational New Drugs</i> , 2012, 30, 950-958. | 2.6 | 31 |
| 34 | Evaluation of the electrophilicity of DNA-binding pyrrolo(2,1-c)(1,4)benzodiazepines by HPLC. <i>Journal of Antibiotics</i> , 1990, 43, 1286-1292. | 2.0 | 30 |
| 35 | An Extended Pyrrolobenzodiazepine-Polyamide Conjugate with Selectivity for a DNA Sequence Containing the ICB2 Transcription Factor Binding Site. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6339-6351. | 6.4 | 30 |
| 36 | Pyrrolobenzodiazepine dimers: novel sequence-selective, DNA-interactive, cross-linking agents with activity against Gram-positive bacteria. <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 56, 513-518. | 3.0 | 29 |

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|----|---|------|-----------|
| 37 | Fluorescent 7-diethylaminocoumarin pyrrolobenzodiazepine conjugates: Synthesis, DNA interaction, cytotoxicity and differential cellular localization. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 2147-2151. | 2.2 | 29 |
| 38 | Identification of novel telomeric G-quadruplex-targeting chemical scaffolds through screening of three NCI libraries. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3006-3010. | 2.2 | 29 |
| 39 | Preclinical pharmacology and antitumour activity of the novel sequence-selective DNA minor-groove cross-linking agent DSB-120. <i>Cancer Chemotherapy and Pharmacology</i> , 1996, 38, 431-438. | 2.3 | 28 |
| 40 | Topical delivery of anthramycin I. Influence of neat solvents. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 104, 188-195. | 4.0 | 28 |
| 41 | Use of pyrrolobenzodiazepines and related covalent-binding DNA-interactive molecules as ADC payloads: Is mechanism related to systemic toxicity?. <i>Drug Discovery Today: Technologies</i> , 2018, 30, 71-83. | 4.0 | 27 |
| 42 | Observation of a Single-Stranded DNA/Pyrrolobenzodiazepine Adduct. <i>Journal of the American Chemical Society</i> , 2011, 133, 19376-19385. | 13.7 | 26 |
| 43 | Observation of the reversibility of a covalent pyrrolobenzodiazepine (PBD) DNA adduct by HPLC/MS and CD spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1632. | 2.8 | 26 |
| 44 | Influence of P-glycoprotein expression on in vitro cytotoxicity and in vivo antitumour activity of the novel pyrrolobenzodiazepine dimer SJG-136. <i>European Journal of Cancer</i> , 2005, 41, 1811-1818. | 2.8 | 23 |
| 45 | Antistaphylococcal activity of DNA-interactive pyrrolobenzodiazepine (PBD) dimers and PBD-biaryl conjugates. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 1683-1696. | 3.0 | 23 |
| 46 | Synthesis of the first examples of A-C8/C-C2 amide-Linked pyrrolo[2,1-c][1,4]benzodiazepine dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2277-2280. | 2.2 | 22 |
| 47 | A Novel Antibody-Drug Conjugate (ADC) Delivering a DNA Mono-Alkylating Payload to Chondroitin Sulfate Proteoglycan (CSPG4)-Expressing Melanoma. <i>Cancers</i> , 2020, 12, 1029. | 3.7 | 22 |
| 48 | An assay combining high-performance liquid chromatography and mass spectrometry to measure DNA interstrand cross-linking efficiency in oligonucleotides of varying sequences. <i>Analytical Biochemistry</i> , 2008, 374, 173-181. | 2.4 | 21 |
| 49 | Preliminary pharmacokinetic and bioanalytical studies of SJG-136 (NSC 694501), a sequence-selective pyrrolobenzodiazepine dimer DNA-cross-linking agent. <i>Investigational New Drugs</i> , 2004, 22, 231-240. | 2.6 | 20 |
| 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. <i>British Journal of Cancer</i> , 2007, 97, 253-259. | 6.4 | 20 |
| 51 | Synthesis and reactivity of a novel oxazolo[2, 3-c][1,4]benzodiazepine ring system with DNA recognition potential: a new class of anthramycins. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 874. | 2.0 | 19 |
| 52 | Novel C8-linked pyrrolobenzodiazepine (PBD) heterocycle conjugates that recognize DNA sequences containing an inverted CCAAT box. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 3780-3783. | 2.2 | 19 |
| 53 | Effects of Systematic Shortening of Noncovalent C8 Side Chain on the Cytotoxicity and NF- κ B Inhibitory Capacity of Pyrrolobenzodiazepines (PBDs). <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2127-2139. | 6.4 | 17 |
| 54 | Time-dependent cytotoxicity induced by SJG-136 (NSC 694501): influence of the rate of interstrand cross-link formation on DNA damage signaling. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 1602-1609. | 4.1 | 16 |

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|----|--|-----|-----------|
| 55 | 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 <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 985-996. | 3.0 | 16 |
| 56 | Computational Studies Support the Role of the C7-Sibirosamine Sugar of the Pyrrolobenzodiazepine (PBD) Sibiromycin in Transcription Factor Inhibition. <i>ACS Chemical Biology</i> , 2014, 9, 2432-2440. | 3.4 | 15 |
| 57 | Observation of a dynamic equilibrium between DNA hairpin and duplex forms of covalent adducts of a minor groove binding agent. <i>Chemical Communications</i> , 2009, , 227-229. | 4.1 | 13 |
| 58 | Entwicklung Pyrrolobenzodiazepin(PBD)-haltiger Antikörper-Wirkstoff-Konjugate (ADCs) ausgehend von Anthramycin. <i>Angewandte Chemie</i> , 2017, 129, 474-502. | 2.0 | 13 |
| 59 | Topical delivery of anthramycin II. Influence of binary and ternary solvent systems. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 121, 59-64. | 4.0 | 13 |
| 60 | Covalent Bonding of Pyrrolobenzodiazepines (PBDs) to Terminal Guanine Residues within Duplex and Hairpin DNA Fragments. <i>PLoS ONE</i> , 2016, 11, e0152303. | 2.5 | 13 |
| 61 | CHAPTER 1. Introduction to Antibody-Drug Conjugates (ADCs). <i>RSC Drug Discovery Series</i> , 2019, , 1-30. | 0.3 | 12 |
| 62 | Direct liquid chromatography determination of the reactive imine SJG-136 (NSC 694501). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 822, 10-20. | 2.3 | 11 |
| 63 | Pharmacokinetics, pharmacodynamics and metabolism of the dimeric pyrrolobenzodiazepine SJG-136 in rats. <i>Cancer Chemotherapy and Pharmacology</i> , 2011, 68, 777-786. | 2.3 | 10 |
| 64 | Pyrrolobenzodiazepines (PBDs) Do Not Bind to DNA G-Quadruplexes. <i>PLoS ONE</i> , 2014, 9, e105021. | 2.5 | 10 |
| 65 | 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. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4031-4040. | 2.8 | 9 |
| 66 | Activity of the DNA minor groove cross-linking agent SG2000 (SJG-136) against canine tumours. <i>BMC Veterinary Research</i> , 2015, 11, 215. | 1.9 | 8 |
| 67 | The prenylated dioxopiperazine alkaloid Cristatin A has selective telomeric DNA G-quadruplex stabilising properties. <i>Chemical Communications</i> , 2012, 48, 8760. | 4.1 | 7 |
| 68 | UPLC-based assay to assess the hydrophobicity of Antibody-Drug Conjugate (ADC) payloads. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1146, 122075. | 2.3 | 7 |
| 69 | Abstract 1129: GC-t8-linked pyrrolobenzodiazepine (PBD)-biaryl conjugates with femptomolar <i>in vitro</i> cytotoxicity and <i>in vivo</i> antitumour activity in mouse models of pancreatic and breast cancer.. <i>Cancer Research</i> , 2013, 73, 1129-1129. | 0.9 | 5 |
| 70 | Welcome to Future Medicinal Chemistry. <i>Future Medicinal Chemistry</i> , 2009, 1, 1-2. | 2.3 | 4 |
| 71 | Sequence-selective binding of C8-conjugated pyrrolobenzodiazepines (PBDs) to DNA. <i>Biophysical Chemistry</i> , 2017, 230, 53-61. | 2.8 | 4 |
| 72 | Novel pyrrolobenzodiazepine benzofused hybrid molecules inhibit NF- κ B activity and synergise with bortezomib and ibrutinib in hematological cancers. <i>Haematologica</i> , 2021, 106, 958-967. | 3.5 | 4 |

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|----|---|-----|-----------|
| 73 | Abstract 5370: Use of molecular dynamics simulations to rationalise the DNA sequence-selectivity of pyrrolobenzodiazepine-MPB conjugates. <i>Cancer Research</i> , 2014, 74, 5370-5370. | 0.9 | 4 |
| 74 | Abstract 736: Pyridinobenzodiazepines (PDDs): A new class of sequence-selective DNA mono-alkylating ADC payloads with low hydrophobicity. <i>Cancer Research</i> , 2018, 78, 736-736. | 0.9 | 4 |
| 75 | Methylene-linked bis-phenylbenzimidazoles a new scaffold to target telomeric DNA/RNA hybrid duplex. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4424-4428. | 2.8 | 3 |
| 76 | Abstract 5329: Molecular dynamics simulations of sibiromycin suggest a role for the c7-sugar in transcription factor inhibition. <i>Cancer Research</i> , 2014, 74, 5329-5329. | 0.9 | 3 |
| 77 | Abstract 4779: In silico design, synthesis and evaluation of a new family of C1-substituted pyrrolobenzodiazepines (PBDs). <i>Cancer Research</i> , 2016, 76, 4779-4779. | 0.9 | 3 |
| 78 | Formation of a Novel C11-Acetone Adduct of a Pyrrolobenzodiazepine (PBD) with Loss of Cytotoxicity. <i>Synlett</i> , 2018, 29, 1112-1116. | 1.8 | 1 |
| 79 | Translational aspects of biologicals: monoclonal antibodies and antibody-drug conjugates as examples. , 2021, , 329-350. | | 0 |