Sean M Kerwin

List of Publications by Year
in descending order

96 papers	4,726 citations	126907 33 h-index	102487 66 g-index
108 all docs	108 docs citations	108 times ranked	4209 citing authors

#	Article	IF	Citations
1	Inhibition of Human Telomerase by a G-Quadruplex-Interactive Compound. Journal of Medicinal Chemistry, 1997, 40, 2113-2116.	6.4	763
2	NMR-Based Model of a Telomerase-Inhibiting Compound Bound to G-Quadruplex DNAâ€. Biochemistry, 1998, 37, 12367-12374.	2.5	369
3	Synthesis and evaluation of anticancer benzoxazoles and benzimidazoles related to UK-1. Bioorganic and Medicinal Chemistry, 2002, 10, 3997-4004.	3.0	318
4	G-Quadruplex DNA as a Target for Drug Design. Current Pharmaceutical Design, 2000, 6, 441-471.	1.9	236
5	G-quadruplexes as targets for drug design. , 2000, 85, 141-158.		199
6	Synthesis, metal ion binding, and biological evaluation of new anticancer 2-(2â€²-hydroxyphenyl)benzoxazole analogs of UK-1. Bioorganic and Medicinal Chemistry, 2008, 16, 1775-1783.	3.0	153
7	Investigation of Quadruplex Oligonucleotideâ^'Drug Interactions by Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2002, 74, 2029-2033.	6.5	113
8	New transition metal ion complexes with benzimidazole-5-carboxylic acid hydrazides with antitumor activity. European Journal of Medicinal Chemistry, 2009, 44, 1500-1508.	5.5	112
9	Self-Assembly of a Quinobenzoxazine-Mg2+ Complex on DNA: A New Paradigm for the Structure of a Drug-DNA Complex and Implications for the Structure of the Quinolone Bacterial Gyrase-DNA Complex. Journal of Medicinal Chemistry, 1995, 38, 408-424.	6.4	104
10	ChemBioOffice Ultra 2010 Suite. Journal of the American Chemical Society, 2010, 132, 2466-2467.	13.7	96
11	Structure-Based Design and Characterization of Novel Platforms for Ricin and Shiga Toxin Inhibition. Journal of Medicinal Chemistry, 2002, 45, 90-98.	6.4	95
12	Solution structure of a conserved DNA sequence from the HIV-1 genome: Restrained molecular dynamics simulation with distance and torsion angle restraints derived from two-dimensional NMR spectra. Biochemistry, 1993, 32, 13419-13431.	2.5	89
13	The Relationship between Ligand Aggregation and G-Quadruplex DNA Selectivity in a Series of 3,4,9,10-Perylenetetracarboxylic Acid Diimides. Biochemistry, 2002, 41, 11379-11389.	2.5	86
14	Evaluation of binding of perylene diimide and benzannulated perylene diimide ligands to dna by electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2006, 17, 593-604.	2.8	83
15	Perylene Diimide G-Quadruplex DNA Binding Selectivity is Mediated by Ligand Aggregation. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 447-450.	2.2	82
16	The total synthesis of UK-1. Tetrahedron Letters, 1997, 38, 199-202.	1.4	72
17	Thermally Induced DNAÂ·RNA Hybrid to G-Quadruplex Transitions:â€‰ Possible Implications for Telomere Synthesis by Telomerase. Biochemistry, 1996, 35, 16110-16115.	2.5	69
18	Synthesis and Thermal Rearrangement of C,N-Dialkynyl Imines:â€‰ A Potential Aza-Bergman Route to 2,5-Didehydropyridine. Journal of the American Chemical Society, 1997, 119, 1464-1465.	13.7	69

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19	Coupling Reactions of Bromoalkynes with Imidazoles Mediated by Copper Salts: Synthesis of Novel N-Alkynylimidazoles. Journal of Organic Chemistry, 2008, 73, 6462-6465.	3.2	64
20	Pharmacokinetics of caffeic acid phenethyl ester and its catecholâ€ring fluorinated derivative following intravenous administration to rats. Biopharmaceutics and Drug Disposition, 2009, 30, 221-228.	1.9	63
21	The para-Toluenesulfonic Acid-Promoted Synthesis of 2-Substituted Benzoxazoles and Benzimidazoles from Diacylated Precursors.. Tetrahedron, 1997, 53, 457-464.	1.9	57
22	PRELIMINARY COMMUNICATION The Novel Bis(benzoxazole) Cytotoxic Natural Product UK-1 Is a Magnesium Ion-Dependent DNA Binding Agent and Inhibitor of Human Topoisomerase II. Bioorganic Chemistry, 1999, 27, 326-337.	4.1	57
23	The aggregation and G-quadruplex DNA selectivity of charged 3,4,9,10-perylenetetracarboxylic acid diimides. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 3395-3398.	2.2	57
24	Cytoprotective effect of caffeic acid phenethyl ester (CAPE) and catechol ring-fluorinated CAPE derivatives against menadione-induced oxidative stress in human endothelial cells. Bioorganic and Medicinal Chemistry, 2006, 14, 4879-4887.	3.0	50
25	G-Quadruplex DNA binding by a series of carbocyanine dyes. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2411-2414.	2.2	48
26	Evaluation of complexes of DNA duplexes and novel benzoxazoles or benzimidazoles by electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2004, 15, 1593-1603.	2.8	47
27	Synthesis and Thermolysis of Heterocyclic 3-Aza-3-ene-1,5-diynes1. Organic Letters, 2002, 4, 4543-4546.	4.6	46
28	Duplex and Quadruplex DNA Binding and Photocleavage by Trioxatriangulenium Ion. Biochemistry, 2005, 44, 2163-2172.	2.5	45
29	Inhibition of Human Telomerase by 7-Deaza-2â€²-deoxyguanosine Nucleoside Triphosphate Analogs: Potent Inhibition by 6-Thio-7-deaza-2â€²-deoxyguanosine 5â€²-Triphosphate. Bioorganic Chemistry, 2001, 29, 36-55.	4.1	43
30	Î±,5-Didehydro-3-picoline Diradicals from Skipped Azaenediynes:â€‰ Computational and Trapping Studies of an Aza-Myersâ€“Saito Cyclization. Organic Letters, 2004, 6, 2059-2062.	4.6	41
31	Simian Virus 40 Large T-Antigen G-Quadruplex DNA Helicase Inhibition by G-Quadruplex DNA-Interactive Agents. Biochemistry, 2008, 47, 1896-1909.	2.5	40
32	Structureâ€“activity relationships in the cytoprotective effect of caffeic acid phenethyl ester (CAPE) and fluorinated derivatives: Effects on heme oxygenase-1 induction and antioxidant activities. European Journal of Pharmacology, 2010, 635, 16-22.	3.5	40
33	Stability of caffeic acid phenethyl ester and its fluorinated derivative in rat plasma. Biomedical Chromatography, 2007, 21, 343-350.	1.7	37
34	Synthesis and docking studies of novel antitumor benzimidazoles. Bioorganic and Medicinal Chemistry, 2012, 20, 6989-7001.	3.0	35
35	Quassinoid synthesis. 2. Preparation of a tetracyclic intermediate having the bruceantin tetrahydrofuran ring. Journal of Organic Chemistry, 1987, 52, 1686-1695.	3.2	34
36	Cytoprotection of human endothelial cells from menadione cytotoxicity by caffeic acid phenethyl ester: The role of heme oxygenase-1. European Journal of Pharmacology, 2008, 591, 28-35.	3.5	34

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37	Design of New Topoisomerase II Inhibitors Based upon a Quinobenzoxazine Self-Assembly Model. Journal of Medicinal Chemistry, 1998, 41, 4273-4278.	6.4	32
38	Synthesis and Metal Ion Binding Studies of Enediyne-Containing Crown Ethers. Journal of Organic Chemistry, 1996, 61, 9385-9393.	3.2	30
39	An Extremely Facile Aza-Bergman Rearrangement of Sterically Unencumbered Acyclic 3-Aza-3-ene-1,5-diynes. Journal of Organic Chemistry, 2003, 68, 2234-2242.	3.2	29
40	Synthesis, DNA cleavage, and cytotoxicity of a series of bis(propargylic) sulfone crown ethers. Bioorganic and Medicinal Chemistry, 2001, 9, 2809-2818.	3.0	28
41	A potential gene target in HIV-1: rationale, selection of a conserved sequence, and determination of NMR distance and torsion angle constraints. Biochemistry, 1992, 31, 9325-9338.	2.5	27
42	Evidence for the Formation of 2:2 Drugâ^'Mg2+Dimers in Solution and for the Formation of Dimeric Drug Complexes on DNA from the DNA-Accelerated Photochemical Reaction of Antineoplastic Quinobenzoxazines. Journal of the American Chemical Society, 1996, 118, 7040-7048.	13.7	27
43	Thermal cyclization of 1,2-dialkynylimidazoles to imidazo[1,2-a]pyridines. Tetrahedron, 2006, 62, 3798-3808.	1.9	26
44	Alternative DNA structure formation in the mutagenic human c-MYC promoter. Nucleic Acids Research, 2017, 45, 4929-4943.	14.5	26
45	N-propargyl-2-alkynylbenzothiazolium aza-enediynes: role of the 2-alkynylbenzothiazolium functionality in DNA cleavage. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2971-2974.	2.2	25
46	Efficient, Regioselective Access to Bicyclic Imidazo[1,2-x]- Heterocycles via Gold- and Base-Promoted Cyclization of 1-Alkynylimidazoles. Journal of Organic Chemistry, 2009, 74, 9229-9232.	3.2	25
47	Synthesis of a series of caffeic acid phenethyl amide (CAPA) fluorinated derivatives: Comparison of cytoprotective effects to caffeic acid phenethyl ester (CAPE). Bioorganic and Medicinal Chemistry, 2010, 18, 5032-5038.	3.0	25
48	Synthesis and studying the antitumor activity of novel 5-(2-methylbenzimidazol-5-yl)-1,3,4-oxadiazole-2(3H)-thiones. European Journal of Chemistry, 2010, 1, 67-72.	0.6	25
49	Enediynes from Aza-Enediynes:â€‰C,N-Dialkynyl Imines Undergo Both Aza-Bergman Rearrangement and Conversion to Enediynes and Fumaronitriles. Organic Letters, 2006, 8, 1983-1986.	4.6	23
50	Synthesis and biological evaluation of p38Î± kinase-targeting dialkynylimidazoles. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6293-6297.	2.2	23
51	5H-Cyclopentapyrazines from 1,2-Dialkynylimidazoles. Synlett, 2004, 2004, 1404-1408.	1.8	22
52	2-Alkynyl-N-propargyl Pyridinium Salts:Â Pyridinium-Based Heterocyclic Skipped Aza-Enediynes that Cleave DNA by Deoxyribosyl Hydrogen-Atom Abstraction and Guanine Oxidation. Biochemistry, 2006, 45, 7265-7276.	2.5	22
53	Intra- and intermolecular trapping of cyclopentapyrazine carbenes derived from 1,2-dialkynylimidazoles. Tetrahedron Letters, 2006, 47, 353-356.	1.4	22
54	DNA Modification by 4-Aza-3-ene-1,6-diynes:Â DNA Cleavage, pH-Dependent Cytosine-Specific Interactions, and Cancer Cell Cytotoxicityâ€. Biochemistry, 2002, 41, 5283-5290.	2.5	21

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55	Lithiation and functionalization of 1-alkynylimidazoles at the 2-position. Tetrahedron Letters, 2009, 50, 5194-5197.	1.4	21
56	Synthesis of a heterocyclic aza-enediyne and its DNA-cleavage properties. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 2509-2512.	2.2	20
57	Cytotoxic 1,2-Dialkynylimidazole-Based Aza-Enediynes: Aza-Bergman Rearrangement Rates Do Not Predict Cytotoxicity. Journal of Medicinal Chemistry, 2011, 54, 5059-5069.	6.4	20
58	Propargylic Sulfone-Armed Lariat Crown Ethers: Alkali Metal Ion-Regulated DNA Cleavage Agents. Bioorganic Chemistry, 2000, 28, 98-118.	4.1	19
59	Rationally Designed N,N'-Bis[(N-p-guanidinobenzyl-N-methyl)aminocarbonyl]-1,3-diaminobenzene , "BIGBEN", Binds to the Minor Groove of d(CGCGAATTCGCG)2 as Determined by Two-Dimensional Nuclear Magnetic Resonance Spectroscopy. Journal of the American Chemical Society, 1995, 117, 9941-9950.	13.7	18
60	Stability of Caffeic Acid Phenethyl Amide (CAPA) in Rat Plasma. Biomedical Chromatography, 2012, 26, 594-598.	1.7	18
61	Real-time Investigation of SV40 Large T-antigen Helicase Activity Using Surface Plasmon Resonance. Cell Biochemistry and Biophysics, 2009, 53, 43-52.	1.8	17
62	Evaluation of metal-mediated DNA binding of benzoxazole ligands by electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2008, 19, 209-218.	2.8	15
63	Isolation of a cyclopropane-containing product from the rearrangement of a 3-aza-3-ene-1,5-diyne under acid catalysis. Tetrahedron Letters, 2003, 44, 3463-3466.	1.4	14
64	A Fluorescenceâ€Based Assay for p38Î± Recruitment Site Binders: Identification of Rooperol as a Novel p38Î± Kinase Inhibitor. ChemBioChem, 2013, 14, 66-71.	2.6	13
65	Development and validation of an LCMS method to determine the pharmacokinetic profiles of caffeic acid phenethyl amide and caffeic acid phenethyl ester in male Sprague–Dawley rats. Biomedical Chromatography, 2014, 28, 241-246.	1.7	12
66	A Copper-Catalyzed N-Alkynylation Route to 2-Substituted N-Alkynyl Pyrroles and Their Cyclization into Pyrrolo[2,1-c]oxazin-1-ones: A Formal Total Synthesis of Peramine. Synthesis, 2017, 49, 2544-2554.	2.3	12
67	Identification of the adduct between a 4-aza-3-ene-1,6-diyne and DNA using electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2006, 17, 1342-1352.	2.8	11
68	Exploring the synthetic utility of 1-alkynylimidazoles: regiocontrolled cyclization to diverse imidazoazines and imidazoazoles. Tetrahedron, 2014, 70, 4534-4539.	1.9	11
69	Preparation and Utility of N-Alkynyl Azoles in Synthesis. Molecules, 2019, 24, 422.	3.8	10
70	Quantitative determination of fluorinated caffeic acid phenethyl ester derivative from rat blood plasma by liquid chromatography-electrospray ionization tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 867, 138-143.	2.3	9
71	G-quadruplex DNA cleavage preference and identification of a perylene diimide G-quadruplex photocleavage agent using a rapid fluorescent assay. Bioorganic and Medicinal Chemistry, 2012, 20, 6904-6918.	3.0	9
72	The Conversion of Mixed N,O-Diacylated 2-Aminophenols to 2-Substituted Benzoxazoles. Heterocycles, 1999, 51, 979.	0.7	8

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73	Synthesis of a phosphoramidate pro-drug of 6-thio-7-deaza-2â€²-deoxyguanosine (TDG): a regioselective phosphorylation. Tetrahedron Letters, 2001, 42, 565-567.	1.4	7
74	Cyclization kinetics and biological evaluation of an anticancer 1,2-dialkynylimidazole. Organic and Biomolecular Chemistry, 2010, 8, 1535.	2.8	7
75	Synthesis of 2-substituted 9-oxa-guanines {5-aminooxazolo[5,4-d]pyrimidin-7(6H)-ones} and 9-oxa-2-thio-xanthines {5-mercaptooxazolo[5,4-d]pyrimidin-7(6H)-ones}. Beilstein Journal of Organic Chemistry, 2008, 4, 26.	2.2	6
76	An Improved Synthesis of (Â±)-Nâ€²-Nitrosonornicotine 5â€²-Acetate. Journal of Organic Chemistry, 2009, 74, 2891-2892.	3.2	6
77	A concise synthesis of rooperol and related 1,5-diarylpent-1-en-4-ynes. Tetrahedron Letters, 2014, 55, 137-141.	1.4	6
78	Flexible and modular 3Dâ€printed peptide models. Biochemistry and Molecular Biology Education, 2019, 47, 432-437.	1.2	6
79	Nâ€Methylmesoporphyrin IX Exhibits Gâ€Quadruplexâ€Specific Photocleavage Activity. ChemBioChem, 2019, 20, 1924-1927.	2.6	6
80	Synthesis and Evaluation of a Rationally Designed Click-Based Library for G-Quadruplex Selective DNA Photocleavage. Molecules, 2015, 20, 16446-16465.	3.8	4
81	Toward Bioengineering Anticancer Drugs. Chemistry and Biology, 2002, 9, 956-958.	6.0	3
82	N-Alkynyl Pyrrole Based Total Synthesis of Shensongine A. Synthesis, 2019, 51, 4085-4105.	2.3	3
83	Spirocyclic Products via Carbene Intermediates from Thermolysis of 1,2-Dialkynylpyrrole and 1,2-Diethynylimidazole. Synlett, 2022, 33, 674-678.	1.8	2
84	A Fluorescence-Based G-Quadruplex DNA Cleavage Assay. ACS Symposium Series, 2011, , 13-32.	0.5	1
85	Phenyliodine(III) diacetate-mediated dearomatization of 2-(2-hydroxyaryl)benzoxazoles and 2-(2-hydroxyaryl)benzothiazoles: Regio- and stereoselective synthesis of tetramethoxycyclohexenones and bicyclo[2.2.2]octenones. Journal of Molecular Structure, 2022, 1266, 133520.	3.6	1
86	Synthesis and Thermolysis of Heterocyclic 3-Aza-3-ene-1,5-diynes.. ChemInform, 2003, 34, no.	0.0	0
87	5H-Cyclopentapyrazines from 1,2-Dialkynylimidazoles.. ChemInform, 2004, 35, no.	0.0	0
88	Sequence Effects and Ligand Selectivity in Targeting Nonâ€Canonical DNA Structures. FASEB Journal, 2021, 35, .	0.5	0
89	Targeting the Gâ€Triplex Intermediate in Gâ€Quadruplex DNA Folding for Potential Chemoprevention Applications. FASEB Journal, 2018, 32, 647.7.	0.5	0
90	Gâ€Triplex DNA Formation Determined by SPR and Native Agarose Gel Electrophoresis. FASEB Journal, 2019, 33, .	0.5	0

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91	Sequence and Environmental Effect on the Formation of Gâ€Triplex DNA. FASEB Journal, 2019, 33, 775.3.	0.5	0
92	Specific Photocleavage Activity of N â€Methylmesoporphyrin IX on Gâ€Quadruplex DNA Structures. FASEB Journal, 2019, 33, 471.5.	0.5	0
93	Overcoming the Rapid Metabolism of the Promising Anticancer Natural Product Rooperol. FASEB Journal, 2019, 33, 634.5.	0.5	0
94	Spectroscopic, Gel Electrophoretic, and Surface Plasmon Resonance Characterization of Gâ€Triplex DNA Formation. FASEB Journal, 2019, 33, 775.4.	0.5	0
95	Stability Studies of Rooperol and Analogues by In Vitro Metabolism with HPLC/MS Detection. FASEB Journal, 2019, 33, lb378.	0.5	0
96	Scalable Synthesis and Cancer Cell Cytotoxicity of Rooperol and Analogues. Molecules, 2022, 27, 1792.	3.8	0