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	Spirocyclic Products via Carbene Intermediates from Thermolysis of 1,2-Dialkynylpyrrole and 1,2-Diethynylimidazole. Synlett, 2022, 33, 674-678.	1.8	2
2	Scalable Synthesis and Cancer Cell Cytotoxicity of Rooperol and Analogues. Molecules, 2022, 27, 1792.	3.8	0
3	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
4	Sequence Effects and Ligand Selectivity in Targeting Nonâ€Canonical DNA Structures. FASEB Journal, 2021, 35, .	0.5	0
5	N-Alkynyl Pyrrole Based Total Synthesis of Shensongine A. Synthesis, 2019, 51, 4085-4105.	2.3	3
6	Preparation and Utility of N-Alkynyl Azoles in Synthesis. Molecules, 2019, 24, 422.	3.8	10
7	Flexible and modular 3Dâ€printed peptide models. Biochemistry and Molecular Biology Education, 2019, 47, 432-437.	1.2	6
8	Nâ€Methylmesoporphyrin IX Exhibits Gâ€Quadruplexâ€Specific Photocleavage Activity. ChemBioChem, 2019, 20, 1924-1927.	2.6	6
9	Gâ€Triplex DNA Formation Determined by SPR and Native Agarose Gel Electrophoresis. FASEB Journal, 2019, 33, .	0.5	0
10	Sequence and Environmental Effect on the Formation of Gâ€Triplex DNA. FASEB Journal, 2019, 33, 775.3.	0.5	0
11	Specific Photocleavage Activity of N â€Methylmesoporphyrin IX on Gâ€Quadruplex DNA Structures. FASEB Journal, 2019, 33, 471.5.	0.5	0
12	Overcoming the Rapid Metabolism of the Promising Anticancer Natural Product Rooperol. FASEB Journal, 2019, 33, 634.5.	0.5	0
13	Spectroscopic, Gel Electrophoretic, and Surface Plasmon Resonance Characterization of Gâ€Triplex DNA Formation. FASEB Journal, 2019, 33, 775.4.	0.5	0
14	Stability Studies of Rooperol and Analogues by In Vitro Metabolism with HPLC/MS Detection. FASEB Journal, 2019, 33, lb378.	0.5	0
15	Targeting the Gâ€Triplex Intermediate in Gâ€Quadruplex DNA Folding for Potential Chemoprevention Applications. FASEB Journal, 2018, 32, 647.7.	0.5	0
16	Alternative DNA structure formation in the mutagenic human c-MYC promoter. Nucleic Acids Research, 2017, 45, 4929-4943.	14.5	26
17	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
18	Synthesis and Evaluation of a Rationally Designed Click-Based Library for G-Quadruplex Selective DNA Photocleavage. Molecules, 2015, 20, 16446-16465.	3.8	4

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19	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
20	A concise synthesis of rooperol and related 1,5-diarylpent-1-en-4-ynes. Tetrahedron Letters, 2014, 55, 137-141.	1.4	6
21	Exploring the synthetic utility of 1-alkynylimidazoles: regiocontrolled cyclization to diverse imidazoazines and imidazoazoles. Tetrahedron, 2014, 70, 4534-4539.	1.9	11
22	A Fluorescence–Based Assay for p38α Recruitment Site Binders: Identification of Rooperol as a Novel p38α Kinase Inhibitor. ChemBioChem, 2013, 14, 66-71.	2.6	13
23	Synthesis and docking studies of novel antitumor benzimidazoles. Bioorganic and Medicinal Chemistry, 2012, 20, 6989-7001.	3.0	35
24	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
25	Stability of Caffeic Acid Phenethyl Amide (CAPA) in Rat Plasma. Biomedical Chromatography, 2012, 26, 594-598.	1.7	18
26	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
27	A Fluorescence-Based G-Quadruplex DNA Cleavage Assay. ACS Symposium Series, 2011, , 13-32.	0.5	1
28	Structure–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
29	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
30	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
31	Cyclization kinetics and biological evaluation of an anticancer 1,2-dialkynylimidazole. Organic and Biomolecular Chemistry, 2010, 8, 1535.	2.8	7
32	ChemBioOffice Ultra 2010 Suite. Journal of the American Chemical Society, 2010, 132, 2466-2467.	13.7	96
33	Pharmacokinetics of caffeic acid phenethyl ester and its catechol–ring fluorinated derivative following intravenous administration to rats. Biopharmaceutics and Drug Disposition, 2009, 30, 221-228.	1.9	63
34	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
35	Lithiation and functionalization of 1-alkynylimidazoles at the 2-position. Tetrahedron Letters, 2009, 50, 5194-5197.	1.4	21
36	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

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37	Synthesis and biological evaluation of p38Î± kinase-targeting dialkynylimidazoles. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6293-6297.	2.2	23
38	An Improved Synthesis of (Â±)-Nâ€²-Nitrosonornicotine 5â€²-Acetate. Journal of Organic Chemistry, 2009, 74, 2891-2892.	3.2	6
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Stability of caffeic acid phenethyl ester and its fluorinated derivative in rat plasma. Biomedical Chromatography, 2007, 21, 343-350.	1.7	37
48	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
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	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
51	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
52	Thermal cyclization of 1,2-dialkynylimidazoles to imidazo[1,2-a]pyridines. Tetrahedron, 2006, 62, 3798-3808.	1.9	26
53	Intra- and intermolecular trapping of cyclopentapyrazine carbenes derived from 1,2-dialkynylimidazoles. Tetrahedron Letters, 2006, 47, 353-356.	1.4	22
54	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

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55	Duplex and Quadruplex DNA Binding and Photocleavage by Trioxatriangulenium Ion. Biochemistry, 2005, 44, 2163-2172.	2.5	45
56	5H-Cyclopentapyrazines from 1,2-Dialkynylimidazoles. Synlett, 2004, 2004, 1404-1408.	1.8	22
57	5H-Cyclopentapyrazines from 1,2-Dialkynylimidazoles.. ChemInform, 2004, 35, no.	0.0	0
58	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
59	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
60	Synthesis and Thermolysis of Heterocyclic 3-Aza-3-ene-1,5-diynes.. ChemInform, 2003, 34, no.	0.0	0
61	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
62	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
63	Investigation of Quadruplex Oligonucleotideâ^'Drug Interactions by Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2002, 74, 2029-2033.	6.5	113
64	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
65	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
66	Synthesis and Thermolysis of Heterocyclic 3-Aza-3-ene-1,5-diynes1. Organic Letters, 2002, 4, 4543-4546.	4.6	46
67	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
68	Perylene Diimide G-Quadruplex DNA Binding Selectivity is Mediated by Ligand Aggregation. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 447-450.	2.2	82
69	Toward Bioengineering Anticancer Drugs. Chemistry and Biology, 2002, 9, 956-958.	6.0	3
70	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
71	Synthesis and evaluation of anticancer benzoxazoles and benzimidazoles related to UK-1. Bioorganic and Medicinal Chemistry, 2002, 10, 3997-4004.	3.0	318
72	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

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73	G-Quadruplex DNA binding by a series of carbocyanine dyes. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2411-2414.	2.2	48
74	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
75	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
76	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
77	Propargylic Sulfone-Armed Lariat Crown Ethers: Alkali Metal Ion-Regulated DNA Cleavage Agents. Bioorganic Chemistry, 2000, 28, 98-118.	4.1	19
78	Synthesis of a heterocyclic aza-enediyne and its DNA-cleavage properties. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 2509-2512.	2.2	20
79	G-quadruplexes as targets for drug design. , 2000, 85, 141-158.		199
80	G-Quadruplex DNA as a Target for Drug Design. Current Pharmaceutical Design, 2000, 6, 441-471.	1.9	236
81	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
82	The Conversion of Mixed N,O-Diacylated 2-Aminophenols to 2-Substituted Benzoxazoles. Heterocycles, 1999, 51, 979.	0.7	8
83	Design of New Topoisomerase II Inhibitors Based upon a Quinobenzoxazine Self-Assembly Model. Journal of Medicinal Chemistry, 1998, 41, 4273-4278.	6.4	32
84	NMR-Based Model of a Telomerase-Inhibiting Compound Bound to G-Quadruplex DNAâ€. Biochemistry, 1998, 37, 12367-12374.	2.5	369
85	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
86	Inhibition of Human Telomerase by a G-Quadruplex-Interactive Compound. Journal of Medicinal Chemistry, 1997, 40, 2113-2116.	6.4	763
87	The para-Toluenesulfonic Acid-Promoted Synthesis of 2-Substituted Benzoxazoles and Benzimidazoles from Diacylated Precursors.. Tetrahedron, 1997, 53, 457-464.	1.9	57
88	The total synthesis of UK-1. Tetrahedron Letters, 1997, 38, 199-202.	1.4	72
89	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
90	Synthesis and Metal Ion Binding Studies of Enediyne-Containing Crown Ethers. Journal of Organic Chemistry, 1996, 61, 9385-9393.	3.2	30

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91	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
92	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
93	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
94	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
95	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
96	Quassinoid synthesis. 2. Preparation of a tetracyclic intermediate having the bruceantin tetrahydrofuran ring. Journal of Organic Chemistry, 1987, 52, 1686-1695.	3.2	34