Peter B Dervan

List of Publications by Year
in descending order

71	7,175	61945 43	95218 68
papers	citations	h-index	g-index

73	73	73	3665
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RNA polymerase II trapped on a molecular treadmill: Structural basis of persistent transcriptional arrest by a minor groove DNA binder. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114065119.	3.3	3
2	Repression of the transcriptional activity of ERRÎ± with sequence-specific DNA-binding polyamides. Medicinal Chemistry Research, 2020, 29, 607-616.	1.1	3
3	Single position substitution of hairpin pyrrole-imidazole polyamides imparts distinct DNA-binding profiles across the human genome. PLoS ONE, 2020, 15, e0243905.	1.1	5
4	A Personal Perspective on Chemical Biology: Before the Beginning. Israel Journal of Chemistry, 2019, 59, 71-83.	1.0	4
5	Sequence specific suppression of androgen receptorâ€“DNA binding in vivo by a Py-Im polyamide. Nucleic Acids Research, 2019, 47, 3828-3835.	6.5	19
6	Interference with DNA repair after ionizing radiation by a pyrrole-imidazole polyamide. PLoS ONE, 2018, 13, e0196803.	1.1	4
7	Molecular Recognition of DNA by Pyâ€“Im Polyamides: From Discovery to Oncology. Chemical Biology, 2018, , 298-331.	0.1	8
8	A Pyrrole-Imidazole Polyamide Is Active against Enzalutamide-Resistant Prostate Cancer. Cancer Research, 2017, 77, 2207-2212.	0.4	54
9	Structural basis for the initiation of eukaryotic transcription-coupled DNA repair. Nature, 2017, 551, 653-657.	13.7	151
10	Ahmed H. Zewail (1946â€“2016). Science, 2016, 353, 1103-1103.	6.0	0
11	Stalled DNA Replication Forks at the Endogenous GAA Repeats Drive Repeat Expansion in Friedreichâ€™s Ataxia Cells. Cell Reports, 2016, 16, 1218-1227.	2.9	51
12	RNA polymerase II senses obstruction in the DNA minor groove via a conserved sensor motif. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12426-12431.	3.3	25
13	A DNA-binding Molecule Targeting the Adaptive Hypoxic Response in Multiple Myeloma Has Potent Antitumor Activity. Molecular Cancer Research, 2016, 14, 253-266.	1.5	17
14	An HRE-Binding Py-Im Polyamide Impairs Hypoxic Signaling in Tumors. Molecular Cancer Therapeutics, 2016, 15, 608-617.	1.9	16
15	A sequence-specific DNA binding small molecule triggers the release of immunogenic signals and phagocytosis in a model of B-cell lymphoma. Quarterly Reviews of Biophysics, 2015, 48, 453-464.	2.4	12
16	Tumor Repression of VCaP Xenografts by a Pyrrole-Imidazole Polyamide. PLoS ONE, 2015, 10, e0143161.	1.1	24
17	Replication stress by Pyâ€“Im polyamides induces a non-canonical ATR-dependent checkpoint response. Nucleic Acids Research, 2014, 42, 11546-11559.	6.5	24
18	A C-14 labeled Pyâ€“Im polyamide localizes to a subcutaneous prostate cancer tumor. Bioorganic and Medicinal Chemistry, 2014, 22, 4371-4375.	1.4	14

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19	Animal Toxicity of Hairpin Pyrrole-Imidazole Polyamides Varies with the Turn Unit. Journal of Medicinal Chemistry, 2013, 56, 7449-7457.	2.9	30
20	Antitumor activity of a pyrrole-imidazole polyamide. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1863-1868.	3.3	111
21	Activity of a Pyâ€“Im Polyamide Targeted to the Estrogen Response Element. Molecular Cancer Therapeutics, 2013, 12, 675-684.	1.9	48
22	Guiding the Design of Synthetic DNA-Binding Molecules with Massively Parallel Sequencing. Journal of the American Chemical Society, 2012, 134, 17814-17822.	6.6	75
23	Microwave Assisted Synthesis of Py-Im Polyamides. Organic Letters, 2012, 14, 2774-2777.	2.4	31
24	Structural Basis for Cyclic Py-Im Polyamide Allosteric Inhibition of Nuclear Receptor Binding. Journal of the American Chemical Society, 2010, 132, 14521-14529.	6.6	88
25	Allosteric modulation of DNA by small molecules. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13175-13179.	3.3	142
26	Targeted Chemical Wedges Reveal the Role of Allosteric DNA Modulation in Proteinâ^'DNA Assembly. ACS Chemical Biology, 2008, 3, 220-229.	1.6	47
27	Improved nuclear localization of DNA-binding polyamides. Nucleic Acids Research, 2007, 35, 363-370.	6.5	208
28	Modulating Hypoxia-Inducible Transcription by Disrupting the HIF-1â€“DNA Interface. ACS Chemical Biology, 2007, 2, 561-571.	1.6	120
29	Suppression of androgen receptor-mediated gene expression by a sequence-specific DNA-binding polyamide. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10418-10423.	3.3	183
30	Quantitative Microarray Profiling of DNA-Binding Molecules. Journal of the American Chemical Society, 2007, 129, 12310-12319.	6.6	70
31	Completion of a programmable DNA-binding small molecule library. Tetrahedron, 2007, 63, 6146-6151.	1.0	64
32	Defining the sequence-recognition profile of DNA-binding molecules. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 867-872.	3.3	221
33	DNA sequence-specific polyamides alleviate transcription inhibition associated with long GAA{middle dot}TTC repeats in Friedreich's ataxia. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11497-11502.	3.3	131
34	Regulation of Gene Expression with Pyrrole-Imidazole Polyamides. , 2005, , 121-152.		1
35	Programmable DNA Binding Oligomers for Control of Transcription. Anti-Cancer Agents in Medicinal Chemistry, 2005, 5, 373-387.	7.0	104
36	Inhibition of vascular endothelial growth factor with a sequence-specific hypoxia response element antagonist. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16768-16773.	3.3	211

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37	Small Molecule Transcription Factor Mimic. Journal of the American Chemical Society, 2004, 126, 15940-15941.	6.6	89
38	From The Cover: Molecular recognition of the nucleosomal "supergroove". Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6864-6869.	3.3	90
39	Recognition of the DNA minor groove by pyrrole-imidazole polyamides. Current Opinion in Structural Biology, 2003, 13, 284-299.	2.6	605
40	Inhibition of Moloney Murine Leukemia Virus Integration Using Polyamides Targeting the Long-Terminal Repeat Sequencesâ€. Biochemistry, 2003, 42, 6249-6258.	1.2	14
41	Crystal Structures of Nucleosome Core Particles in Complex with Minor Groove DNA-binding Ligands. Journal of Molecular Biology, 2003, 326, 371-380.	2.0	147
42	Nuclear localization of pyrrole-imidazole polyamide-fluorescein conjugates in cell culture. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12063-12068.	3.3	140
43	Design of Artificial Transcriptional Activators with Rigid Poly-l-proline Linkers. Journal of the American Chemical Society, 2002, 124, 13067-13071.	6.6	105
44	Structure of a Î²-Alanine-linked Polyamide Bound to a Full Helical Turn of Purine Tract DNA in the 1:1 Motif. Journal of Molecular Biology, 2002, 320, 55-71.	2.0	36
45	Fmoc Solid Phase Synthesis of Polyamides Containing Pyrrole and Imidazole Amino Acids. Organic Letters, 2001, 3, 1201-1203.	2.4	159
46	Sequence-specific Recognition of DNA in the Nucleosome by Pyrrole-Imidazole Polyamides. Journal of Molecular Biology, 2001, 309, 615-629.	2.0	107
47	Kinetic Consequences of Covalent Linkage of DNA Binding Polyamides. Biochemistry, 2001, 40, 3-8.	1.2	41
48	Sequence-Specific Trapping of Topoisomerase I by DNA Binding Polyamideâ˜Camptothecin Conjugates. Journal of the American Chemical Society, 2001, 123, 8657-8661.	6.6	45
49	Towards a minimal motif for artificial transcriptional activators. Chemistry and Biology, 2001, 8, 583-592.	6.2	85
50	Hydroxybenzamide/Pyrrole Pair Distinguishes TÂ·A from AÂ·T Base Pairs in the Minor Groove of DNA. Journal of the American Chemical Society, 2000, 122, 9354-9360.	6.6	25
51	Strand Selective Cleavage of DNA by Diastereomers of Hairpin Polyamide-seco-CBI Conjugates. Journal of the American Chemical Society, 2000, 122, 4856-4864.	6.6	59
52	Sequence Selectivity of 3-Hydroxypyrrole/Pyrrole Ring Pairings in the DNA Minor Groove. Journal of the American Chemical Society, 1999, 121, 11621-11629.	6.6	40
53	Anti-repression of RNA Polymerase II Transcription by Pyrroleâ˜Imidazole Polyamidesâ€. Biochemistry, 1999, 38, 10801-10807.	1.2	57
54	Recognition of the four Watsonâ€"Crick base pairs in the DNA minor groove by synthetic ligands. Nature, 1998, 391, 468-471.	13.7	476

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55	Structural basis for Gâ€¢C recognition in the DNA minor groove. Nature Structural Biology, 1998, 5, 104-109.	9.7	226
56	Aliphatic/Aromatic Amino Acid Pairings for Polyamide Recognition in the Minor Groove of DNA. Journal of the American Chemical Society, 1998, 120, 6219-6226.	6.6	135
57	A Structural Basis for Recognition of AÂ·T and TÂ·A Base Pairs in the Minor Groove of B-DNA. , 1998, 282, 111-115.		275
58	Discrimination of 5â€˜-GGGG-3â€˜, 5â€˜-GCGC-3â€˜, and 5â€˜-GGCC-3â€˜ Sequences in the Minor Groove of DNA by Eight-Ring Hairpin Polyamides. Journal of the American Chemical Society, 1997, 119, 6953-6961.	6.6	88
59	Regulation of gene expression by small molecules. Nature, 1997, 387, 202-205.	13.7	488
60	On the pairing rules for recognition in the minor groove of DNA by pyrrole-imidazole polyamides. Chemistry and Biology, 1997, 4, 569-578.	6.2	154
61	Triple-Helix Formation by Pyrimidine Oligonucleotides Containing Nonnatural Nucleosides with Extended Aromatic Nucleobases: Intercalation from the major groove as a method for recognizing CÂ·G and T Â· A base pairs. Helvetica Chimica Acta, 1997, 80, 2002-2022.	1.0	32
62	Optimization of the Hairpin Polyamide Design for Recognition of the Minor Groove of DNA. Journal of the American Chemical Society, 1996, 118, 6147-6152.	6.6	81
63	Recognition of 5â€˜-(A,T)GG(A,T)2-3â€˜ Sequences in the Minor Groove of DNA by Hairpin Polyamides. Journal of the American Chemical Society, 1996, 118, 6153-6159.	6.6	46
64	Recognition of a 5â€˜-(A,T)GGG(A,T)2-3â€˜ Sequence in the Minor Groove of DNA by an Eight-Ring Hairpin Polyamide. Journal of the American Chemical Society, 1996, 118, 8198-8206.	6.6	49
65	Effects of the AÂ·T/TÂ·A Degeneracy of Pyrroleâˆ'Imidazole Polyamide Recognition in the Minor Groove of DNAâ€. Biochemistry, 1996, 35, 12532-12537.	1.2	78
66	Recognition of DNA by designed ligands at subnanomolar concentrations. Nature, 1996, 382, 559-561.	13.7	413
67	Binding affinities of synthetic peptides, pyridine-2-carboxamidonetropsin and 1-methylimidazole-2-carboxamidonetropsin, that form 2:1 complexes in the minor groove of double-helical DNA. Biochemistry, 1993, 32, 11385-11389.	1.2	90
68	Design of peptides that bind in the minor groove of DNA at 5'-(A,T)G(A,T)C(A,T)-3' sequences by a dimeric side-by-side motif. Journal of the American Chemical Society, 1992, 114, 8783-8794.	6.6	218
69	Single-site enzymatic cleavage of yeast genomic DNA mediated by triple helix formation. Nature, 1991, 350, 172-174.	13.7	146
70	Interactions Between a Symmetrical Minor Groove Binding Compound and DNA Oligonucleotides: 1H and 19F NMR Studies. Journal of Biomolecular Structure and Dynamics, 1989, 7, 101-117.	2.0	8
71	The Importance ofÎ²-Alanine for Recognition of the Minor Groove of DNA. , 0, , 327-339.		3