Peter B Dervan

List of Publications by Year
in descending order

71 papers	7,175 citations	61984 43 h-index	95266 68 g-index
73 all docs	73 docs citations	73 times ranked	3665 citing authors

#	Article	IF	Citations
1	Recognition of the DNA minor groove by pyrrole-imidazole polyamides. Current Opinion in Structural Biology, 2003, 13, 284-299.	5.7	605
2	Regulation of gene expression by small molecules. Nature, 1997, 387, 202-205.	27.8	488
3	Recognition of the four Watsonâ€“Crick base pairs in the DNA minor groove by synthetic ligands. Nature, 1998, 391, 468-471.	27.8	476
4	Recognition of DNA by designed ligands at subnanomolar concentrations. Nature, 1996, 382, 559-561.	27.8	413
5	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
6	Structural basis for Gâ€¢C recognition in the DNA minor groove. Nature Structural Biology, 1998, 5, 104-109.	9.7	226
7	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.	7.1	221
8	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.	13.7	218
9	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.	7.1	211
10	Improved nuclear localization of DNA-binding polyamides. Nucleic Acids Research, 2007, 35, 363-370.	14.5	208
11	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.	7.1	183
12	Fmoc Solid Phase Synthesis of Polyamides Containing Pyrrole and Imidazole Amino Acids. Organic Letters, 2001, 3, 1201-1203.	4.6	159
13	On the pairing rules for recognition in the minor groove of DNA by pyrrole-imidazole polyamides. Chemistry and Biology, 1997, 4, 569-578.	6.0	154
14	Structural basis for the initiation of eukaryotic transcription-coupled DNA repair. Nature, 2017, 551, 653-657.	27.8	151
15	Crystal Structures of Nucleosome Core Particles in Complex with Minor Groove DNA-binding Ligands. Journal of Molecular Biology, 2003, 326, 371-380.	4.2	147
16	Single-site enzymatic cleavage of yeast genomic DNA mediated by triple helix formation. Nature, 1991, 350, 172-174.	27.8	146
17	Allosteric modulation of DNA by small molecules. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13175-13179.	7.1	142
18	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.	7.1	140

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19	Aliphatic/Aromatic Amino Acid Pairings for Polyamide Recognition in the Minor Groove of DNA. Journal of the American Chemical Society, 1998, 120, 6219-6226.	13.7	135
20	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.	7.1	131
21	Modulating Hypoxia-Inducible Transcription by Disrupting the HIF-1â€“DNA Interface. ACS Chemical Biology, 2007, 2, 561-571.	3.4	120
22	Antitumor activity of a pyrrole-imidazole polyamide. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1863-1868.	7.1	111
23	Sequence-specific Recognition of DNA in the Nucleosome by Pyrrole-Imidazole Polyamides. Journal of Molecular Biology, 2001, 309, 615-629.	4.2	107
24	Design of Artificial Transcriptional Activators with Rigid Poly-l-proline Linkers. Journal of the American Chemical Society, 2002, 124, 13067-13071.	13.7	105
25	Programmable DNA Binding Oligomers for Control of Transcription. Anti-Cancer Agents in Medicinal Chemistry, 2005, 5, 373-387.	7.0	104
26	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.	2.5	90
27	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.	7.1	90
28	Small Molecule Transcription Factor Mimic. Journal of the American Chemical Society, 2004, 126, 15940-15941.	13.7	89
29	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.	13.7	88
30	Structural Basis for Cyclic Py-Im Polyamide Allosteric Inhibition of Nuclear Receptor Binding. Journal of the American Chemical Society, 2010, 132, 14521-14529.	13.7	88
31	Towards a minimal motif for artificial transcriptional activators. Chemistry and Biology, 2001, 8, 583-592.	6.0	85
32	Optimization of the Hairpin Polyamide Design for Recognition of the Minor Groove of DNA. Journal of the American Chemical Society, 1996, 118, 6147-6152.	13.7	81
33	Effects of the AÂ·T/TÂ·A Degeneracy of Pyrroleâ^'Imidazole Polyamide Recognition in the Minor Groove of DNAâ€. Biochemistry, 1996, 35, 12532-12537.	2.5	78
34	Guiding the Design of Synthetic DNA-Binding Molecules with Massively Parallel Sequencing. Journal of the American Chemical Society, 2012, 134, 17814-17822.	13.7	75
35	Quantitative Microarray Profiling of DNA-Binding Molecules. Journal of the American Chemical Society, 2007, 129, 12310-12319.	13.7	70
36	Completion of a programmable DNA-binding small molecule library. Tetrahedron, 2007, 63, 6146-6151.	1.9	64

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37	Strand Selective Cleavage of DNA by Diastereomers of Hairpin Polyamide-seco-CBI Conjugates. Journal of the American Chemical Society, 2000, 122, 4856-4864.	13.7	59
38	Anti-repression of RNA Polymerase II Transcription by Pyrroleâ”Imidazole Polyamidesâ€. Biochemistry, 1999, 38, 10801-10807.	2.5	57
39	A Pyrrole-Imidazole Polyamide Is Active against Enzalutamide-Resistant Prostate Cancer. Cancer Research, 2017, 77, 2207-2212.	0.9	54
40	Stalled DNA Replication Forks at the Endogenous GAA Repeats Drive Repeat Expansion in Friedreichâ€™s Ataxia Cells. Cell Reports, 2016, 16, 1218-1227.	6.4	51
41	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.	13.7	49
42	Activity of a Pyâ€“Im Polyamide Targeted to the Estrogen Response Element. Molecular Cancer Therapeutics, 2013, 12, 675-684.	4.1	48
43	Targeted Chemical Wedges Reveal the Role of Allosteric DNA Modulation in Proteinâ”DNA Assembly. ACS Chemical Biology, 2008, 3, 220-229.	3.4	47
44	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.	13.7	46
45	Sequence-Specific Trapping of Topoisomerase I by DNA Binding Polyamideâ”Camptothecin Conjugates. Journal of the American Chemical Society, 2001, 123, 8657-8661.	13.7	45
46	Kinetic Consequences of Covalent Linkage of DNA Binding Polyamides. Biochemistry, 2001, 40, 3-8.	2.5	41
47	Sequence Selectivity of 3-Hydroxypyrrole/Pyrrole Ring Pairings in the DNA Minor Groove. Journal of the American Chemical Society, 1999, 121, 11621-11629.	13.7	40
48	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.	4.2	36
49	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.	1.6	32
50	Microwave Assisted Synthesis of Py-Im Polyamides. Organic Letters, 2012, 14, 2774-2777.	4.6	31
51	Animal Toxicity of Hairpin Pyrrole-Imidazole Polyamides Varies with the Turn Unit. Journal of Medicinal Chemistry, 2013, 56, 7449-7457.	6.4	30
52	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.	13.7	25
53	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.	7.1	25
54	Replication stress by Pyâ€“Im polyamides induces a non-canonical ATR-dependent checkpoint response. Nucleic Acids Research, 2014, 42, 11546-11559.	14.5	24

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55	Tumor Repression of VCaP Xenografts by a Pyrrole-Imidazole Polyamide. PLoS ONE, 2015, 10, e0143161.	2.5	24
56	Sequence specific suppression of androgen receptorâ€“DNA binding in vivo by a Py-Im polyamide. Nucleic Acids Research, 2019, 47, 3828-3835.	14.5	19
57	A DNA-binding Molecule Targeting the Adaptive Hypoxic Response in Multiple Myeloma Has Potent Antitumor Activity. Molecular Cancer Research, 2016, 14, 253-266.	3.4	17
58	An HRE-Binding Py-Im Polyamide Impairs Hypoxic Signaling in Tumors. Molecular Cancer Therapeutics, 2016, 15, 608-617.	4.1	16
59	Inhibition of Moloney Murine Leukemia Virus Integration Using Polyamides Targeting the Long-Terminal Repeat Sequencesâ€. Biochemistry, 2003, 42, 6249-6258.	2.5	14
60	A C-14 labeled Pyâ€“Im polyamide localizes to a subcutaneous prostate cancer tumor. Bioorganic and Medicinal Chemistry, 2014, 22, 4371-4375.	3.0	14
61	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.	5.7	12
62	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.	3.5	8
63	Molecular Recognition of DNA by Pyâ€“Im Polyamides: From Discovery to Oncology. Chemical Biology, 2018, , 298-331.	0.2	8
64	Single position substitution of hairpin pyrrole-imidazole polyamides imparts distinct DNA-binding profiles across the human genome. PLoS ONE, 2020, 15, e0243905.	2.5	5
65	Interference with DNA repair after ionizing radiation by a pyrrole-imidazole polyamide. PLoS ONE, 2018, 13, e0196803.	2.5	4
66	A Personal Perspective on Chemical Biology: Before the Beginning. Israel Journal of Chemistry, 2019, 59, 71-83.	2.3	4
67	The Importance ofÎ²-Alanine for Recognition of the Minor Groove of DNA. , 0, , 327-339.		3
68	Repression of the transcriptional activity of ERRÎ± with sequence-specific DNA-binding polyamides. Medicinal Chemistry Research, 2020, 29, 607-616.	2.4	3
69	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.	7.1	3
70	Regulation of Gene Expression with Pyrrole-Imidazole Polyamides. , 2005, , 121-152.		1
71	Ahmed H. Zewail (1946â€“2016). Science, 2016, 353, 1103-1103.	12.6	0