

Peter E Nielsen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

8,329
citations

44
h-index

90
g-index

137
ext. papers

8,933
ext. citations

8.2
avg, IF

6.1
L-index

#	Paper	IF	Citations
128	Translocation of non-lytic antimicrobial peptides and bacteria penetrating peptides across the inner membrane of the bacterial envelope. <i>Current Genetics</i> , 2021 , 1	2.9	2
127	Uptake, Stability, and Activity of Antisense Anti- PNA-Peptide Conjugates in and the Role of SbmA. <i>ACS Chemical Biology</i> , 2021 , 16, 471-479	4.9	7
126	Targeting of the Essential , , and Genes in Carbapenem-Resistant by Antisense PNA Precision Antibacterials. <i>Biomedicines</i> , 2021 , 9,	4.8	4
125	Optimized Synthesis of Fmoc/Boc-Protected PNA Monomers and their Assembly into PNA Oligomers.. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 2792-2801	3.2	0
124	Antibiotic Potentiation in Multidrug-Resistant Gram-Negative Pathogenic Bacteria by a Synthetic Peptidomimetic. <i>ACS Infectious Diseases</i> , 2021 , 7, 2152-2163	5.5	6
123	Approaches for Systemic Delivery of Dystrophin Antisense Peptide Nucleic Acid in the mdx Mouse Model. <i>Nucleic Acid Therapeutics</i> , 2021 , 31, 208-219	4.8	2
122	Antisense inhibition of the Escherichia coli NrdAB aerobic ribonucleotide reductase is bactericidal due to induction of DNA strand breaks. <i>Journal of Antimicrobial Chemotherapy</i> , 2021 , 76, 2802-2814	5.1	1
121	Activating the Cpx response induces tolerance to antisense PNA delivered by an arginine-rich peptide in. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 25, 444-454	10.7	2
120	Enzyme-Triggered Release of the Antisense Octaarginine-PNA Conjugate from Phospholipase A2 Sensitive Liposomes.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1018-1025	4.1	7
119	Near-Infrared In Vivo Whole-Body Fluorescence Imaging of PNA. <i>Methods in Molecular Biology</i> , 2020 , 2105, 251-260	1.4	1
118	In Vitro Cellular Delivery of Peptide Nucleic Acid (PNA). <i>Methods in Molecular Biology</i> , 2020 , 2105, 173-185	1.4	0
117	Effective Cellular Delivery of Antisense Peptide Nucleic Acid by Conjugation to Guanidinylated Diaminobutanoic Acid-Based Peptide Dendrons. <i>Biomacromolecules</i> , 2020 , 21, 472-483	6.9	8
116	Targeting TdT gene expression in Molt-4 cells by PNA-octaarginine conjugates. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 4583-4590	7.9	9
115	PNA Antisense Targeting in Bacteria: Determination of Antibacterial Activity (MIC) of PNA-Peptide Conjugates. <i>Methods in Molecular Biology</i> , 2020 , 2105, 231-239	1.4	9
114	In Vivo Administration of Splice Switching PNAs Using the mdx Mouse as a Model System. <i>Methods in Molecular Biology</i> , 2020 , 2105, 241-250	1.4	1
113	Cooperative Cellular Uptake and Activity of Octaarginine Antisense Peptide Nucleic acid (PNA) Conjugates. <i>Biomolecules</i> , 2019 , 9,	5.9	13
112	PNA Length Restriction of Antibacterial Activity of Peptide-PNA Conjugates in Through Effects of the Inner Membrane. <i>Frontiers in Microbiology</i> , 2019 , 10, 1032	5.7	16

111	Microwave-assisted solid-phase synthesis of antisense acpP peptide nucleic acid-peptide conjugates active against colistin- and tigecycline-resistant <i>E. coli</i> and <i>K. pneumoniae</i> . <i>European Journal of Medicinal Chemistry</i> , 2019 , 168, 134-145	6.8	12
110	Downregulation of TdT Expression through Splicing Modulation by Antisense Peptide Nucleic Acid (PNA). <i>Current Pharmaceutical Biotechnology</i> , 2019 , 20, 168-178	2.6	14
109	Effective photo-enhancement of cellular activity of fluorophore-octaarginine antisense PNA conjugates correlates with singlet oxygen formation, endosomal escape and chromophore lipophilicity. <i>Scientific Reports</i> , 2018 , 8, 638	4.9	9
108	An antisense peptide nucleic acid against <i>Pseudomonas aeruginosa</i> inhibiting bacterial-induced inflammatory responses in the cystic fibrosis IB3-1 cellular model system. <i>International Journal of Biological Macromolecules</i> , 2017 , 99, 492-498	7.9	15
107	Role of Cell-Penetrating Peptides in Intracellular Delivery of Peptide Nucleic Acids Targeting Hepadnaviral Replication. <i>Molecular Therapy - Nucleic Acids</i> , 2017 , 9, 162-169	10.7	17
106	Antibacterial Peptide Nucleic Acid-Antimicrobial Peptide (PNA-AMP) Conjugates: Antisense Targeting of Fatty Acid Biosynthesis. <i>Bioconjugate Chemistry</i> , 2016 , 27, 863-7	6.3	51
105	Disruption of Higher Order DNA Structures in Friedreich's Ataxia (GAA) _n Repeats by PNA or LNA Targeting. <i>PLoS ONE</i> , 2016 , 11, e0165788	3.7	8
104	Cellular Antisense Activity of PNA-Oligo(bicycloguanidinium) Conjugates Forming Self-Assembled Nanoaggregates. <i>ChemBioChem</i> , 2015 , 16, 1593-600	3.8	5
103	Therapeutic Potential of Cell Penetrating Peptides (CPPs) and Cationic Polymers for Chronic Hepatitis B. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 28230-41	6.3	17
102	Electroporation Enhanced Effect of Dystrophin Splice Switching PNA Oligomers in Normal and Dystrophic Muscle. <i>Molecular Therapy - Nucleic Acids</i> , 2015 , 4, e267	10.7	8
101	Cross-catalytic peptide nucleic acid (PNA) replication based on templated ligation. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 6901-7	3.9	12
100	A phosphorylation tag for uranyl mediated protein purification and photo assisted tag removal. <i>PLoS ONE</i> , 2014 , 9, e91138	3.7	5
99	Cellular delivery of peptide nucleic acids (PNAs). <i>Methods in Molecular Biology</i> , 2014 , 1050, 193-205	1.4	23
98	Role of SbmA in the uptake of peptide nucleic acid (PNA)-peptide conjugates in <i>E. coli</i> . <i>ACS Chemical Biology</i> , 2013 , 8, 360-7	4.9	53
97	Formamide in the cradle of life?: Comment on "Formamide and the origin of life" by R. Saladino, C. Crestini, S. Pino, G. Costanzo and E. Di Mauro. <i>Physics of Life Reviews</i> , 2012 , 9, 107-8; discussion 121-3	2.1	1
96	Nanomolar cellular antisense activity of peptide nucleic acid (PNA) cholic acid ("umbrella") and cholesterol conjugates delivered by cationic lipids. <i>Bioconjugate Chemistry</i> , 2012 , 23, 196-202	6.3	33
95	Potent inhibition of late stages of hepadnavirus replication by a modified cell penetrating peptide. <i>PLoS ONE</i> , 2012 , 7, e48721	3.7	11
94	Potent antibacterial antisense peptide-peptide nucleic acid conjugates against <i>Pseudomonas aeruginosa</i> . <i>Nucleic Acid Therapeutics</i> , 2012 , 22, 323-34	4.8	59

93	"Artifactual" arsenate DNA. <i>Artificial DNA, PNA & XNA</i> , 2012 , 3, 1-2		1
92	Cell number and transfection volume dependent peptide nucleic acid antisense activity by cationic delivery methods. <i>Artificial DNA, PNA & XNA</i> , 2012 , 3, 22-7		6
91	Natural Arsenate DNA?. <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 4-5		1
90	Targeted gene correction using psoralen, chlorambucil and camptothecin conjugates of triplex forming peptide nucleic acid (PNA). <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 23-32		2
89	A novel pseudo-complementary PNA G-C base pair. <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 33-37		12
88	Sensitive detection of nucleic acids by PNA hybridization directed co-localization of fluorescent beads. <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 60-66		15
87	Artificial DNA structures. <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 39		
86	Peptide nucleic acid (PNA) cell penetrating peptide (CPP) conjugates as carriers for cellular delivery of antisense oligomers. <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 90-9		31
85	Improved cellular uptake of antisense peptide nucleic acids by conjugation to a cell-penetrating peptide and a lipid domain. <i>Methods in Molecular Biology</i> , 2011 , 751, 209-21	1.4	18
84	Gene targeting and expression modulation by peptide nucleic acids (PNA). <i>Current Pharmaceutical Design</i> , 2010 , 16, 3118-23	3.3	53
83	Natural - synthetic - artificial!. <i>Artificial DNA, PNA & XNA</i> , 2010 , 1, 58-59		3
82	Introducing Artificial DNA: PNA & XNA. <i>Artificial DNA, PNA & XNA</i> , 2010 , 1, 1		
81	Cellular delivery and antisense effects of peptide nucleic acid conjugated to polyethyleneimine via disulfide linkers. <i>Bioconjugate Chemistry</i> , 2010 , 21, 1933-8	6.3	22
80	Modulation of mdm2 pre-mRNA splicing by 9-aminoacridine-PNA (peptide nucleic acid) conjugates targeting intron-exon junctions. <i>BMC Cancer</i> , 2010 , 10, 342	4.8	18
79	Targeted gene repair facilitated by peptide nucleic acids (PNA). <i>ChemBioChem</i> , 2010 , 11, 2073-6	3.8	26
78	Peptide nucleic acids (PNA) in chemical biology and drug discovery. <i>Chemistry and Biodiversity</i> , 2010 , 7, 786-804	2.5	182
77	Sequence-selective targeting of duplex DNA by peptide nucleic acids. <i>Current Opinion in Molecular Therapeutics</i> , 2010 , 12, 184-91		26
76	Targeted correction of a thalassemia-associated beta-globin mutation induced by pseudo-complementary peptide nucleic acids. <i>Nucleic Acids Research</i> , 2009 , 37, 3635-44	20.1	43

75	High-affinity triplex targeting of double stranded DNA using chemically modified peptide nucleic acid oligomers. <i>Nucleic Acids Research</i> , 2009 , 37, 4498-507	20.1	61
74	9-Acridinylpeptides and 9-acridinyl-4-nitrophenylsulfonylpeptides. <i>International Journal of Peptide and Protein Research</i> , 2009 , 32, 331-343		6
73	Self-assembling, dynamic alphaPNAs. <i>Chemistry and Biology</i> , 2009 , 16, 689-90		7
72	Hydrogen bonding versus stacking stabilization by modified nucleobases incorporated in PNA.DNA duplexes. <i>Biophysical Chemistry</i> , 2009 , 141, 29-33	3.5	15
71	Uranyl photofootprinting. <i>Methods in Molecular Biology</i> , 2009 , 543, 87-96	1.4	5
70	A new molecule of life?. <i>Scientific American</i> , 2008 , 299, 64-71	0.5	18
69	Improved cellular activity of antisense peptide nucleic acids by conjugation to a cationic peptide-lipid (CatLip) domain. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1526-34	6.3	73
68	Correction of a splice-site mutation in the beta-globin gene stimulated by triplex-forming peptide nucleic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13514-9	11.5	75
67	Subnanomolar antisense activity of phosphonate-peptide nucleic acid (PNA) conjugates delivered by cationic lipids to HeLa cells. <i>Nucleic Acids Research</i> , 2008 , 36, 4424-32	20.1	57
66	Peptide nucleic acids and the origin of life. <i>Chemistry and Biodiversity</i> , 2007 , 4, 1996-2002	2.5	50
65	Question 1: Peptide nucleic acids and the origin and homochirality of life. <i>Origins of Life and Evolution of Biospheres</i> , 2007 , 37, 323-8	1.5	12
64	Site-directed gene mutation at mixed sequence targets by psoralen-conjugated pseudo-complementary peptide nucleic acids. <i>Nucleic Acids Research</i> , 2007 , 35, 7604-13	20.1	32
63	On the stability of peptide nucleic acid duplexes in the presence of organic solvents. <i>Nucleic Acids Research</i> , 2007 , 35, 3367-74	20.1	32
62	Structural diversity of target-specific homopyrimidine peptide nucleic acid-dsDNA complexes. <i>Nucleic Acids Research</i> , 2006 , 34, 5790-9	20.1	26
61	Unique properties of purine/pyrimidine asymmetric PNA.DNA duplexes: differential stabilization of PNA.DNA duplexes by purines in the PNA strand. <i>Biophysical Journal</i> , 2006 , 90, 1329-37	2.9	25
60	Evaluation of cell-penetrating peptides (CPPs) as vehicles for intracellular delivery of antisense peptide nucleic acid (PNA). <i>Bioconjugate Chemistry</i> , 2006 , 17, 750-8	6.3	116
59	Site-specific gene modification by PNAs conjugated to psoralen. <i>Biochemistry</i> , 2006 , 45, 314-23	3.2	30
58	Photochemically enhanced cellular delivery of cell penetrating peptide-PNA conjugates. <i>FEBS Letters</i> , 2006 , 580, 1451-6	3.8	67

57	Cellular delivery of polyheteroaromate-peptide nucleic acid conjugates mediated by cationic lipids. <i>Bioconjugate Chemistry</i> , 2006 , 17, 189-94	6.3	21
56	Enhanced delivery of cell-penetrating peptide-peptide nucleic acid conjugates by endosomal disruption. <i>Nature Protocols</i> , 2006 , 1, 633-6	18.8	102
55	Sequence-specific inhibition of duck hepatitis B virus reverse transcription by peptide nucleic acids (PNA). <i>Journal of Hepatology</i> , 2005 , 42, 180-7	13.4	23
54	Gene targeting using peptide nucleic acid. <i>Methods in Molecular Biology</i> , 2005 , 288, 343-58	1.4	18
53	Addressing the challenges of cellular delivery and bioavailability of peptide nucleic acids (PNA). <i>Quarterly Reviews of Biophysics</i> , 2005 , 38, 345-50	7	51
52	Versatile Oligo(N-Substituted) Glycines: The Many Roles of Peptoids in Drug Discovery 2005 , 1-31		19
51	βPeptides, βPeptides and Isosteric Backbones: New Scaffolds with Controlled Shapes for Mimicking Protein Secondary Structure Elements 2005 , 33-120		1
50	Regulation of Gene Expression with Pyrrole-Imidazole Polyamides 2005 , 121-152		1
49	βHelical Peptide Nucleic Acids (βNAs) 2005 , 193-221		1
48	DNA and RNA-cleaving Pseudo-peptides 2005 , 223-240		
47	Calcium ions effectively enhance the effect of antisense peptide nucleic acids conjugated to cationic tat and oligoarginine peptides. <i>Chemistry and Biology</i> , 2005 , 12, 923-9		119
46	Extended target sequence specificity of PNA-minor-groove binder conjugates. <i>ChemBioChem</i> , 2005 , 6, 66-8	3.8	6
45	Down-regulation of MDM2 and activation of p53 in human cancer cells by antisense 9-aminoacridine-PNA (peptide nucleic acid) conjugates. <i>Nucleic Acids Research</i> , 2004 , 32, 4893-902	20.1	32
44	PNA Technology. <i>Molecular Biotechnology</i> , 2004 , 26, 233-48	3	168
43	Inhibition of Staphylococcus aureus gene expression and growth using antisense peptide nucleic acids. <i>Molecular Therapy</i> , 2004 , 10, 652-9	11.7	119
42	Cellular delivery of peptide nucleic acid (PNA). <i>Advanced Drug Delivery Reviews</i> , 2003 , 55, 267-80	18.5	214
41	Superior duplex DNA strand invasion by acridine conjugated peptide nucleic acids. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6378-9	16.4	67
40	Pseudocomplementary PNAs as selective modifiers of protein activity on duplex DNA: the case of type II restriction enzymes. <i>Nucleic Acids Research</i> , 2003 , 31, 3929-35	20.1	27

39	The translation start codon region is sensitive to antisense PNA inhibition in <i>Escherichia coli</i> . <i>Oligonucleotides</i> , 2003 , 13, 427-33		80
38	Kinetics and mechanism of the DNA double helix invasion by pseudocomplementary peptide nucleic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5953-8	11.5	90
37	Substituted 1,8-naphthyridin-2(1H)-ones are superior to thymine in the recognition of adenine in duplex as well as triplex structures. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3254-62	16.4	44
36	Bactericidal antisense effects of peptide-PNA conjugates. <i>Nature Biotechnology</i> , 2001 , 19, 360-4	44.5	288
35	Peptide nucleic acids as antibacterial agents via the antisense principle. <i>Expert Opinion on Investigational Drugs</i> , 2001 , 10, 331-41	5.9	19
34	Pyrrolidine PNA: a novel conformationally restricted PNA analogue. <i>Organic Letters</i> , 2000 , 2, 4161-3	6.2	48
33	Sequence-specific protection of duplex DNA against restriction and methylation enzymes by pseudocomplementary PNAs. <i>Biochemistry</i> , 2000 , 39, 10908-13	3.2	60
32	Antisense PNA effects in <i>Escherichia coli</i> are limited by the outer-membrane LPS layer. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 10), 2665-2670	2.9	66
31	6-Thioguanine in Peptide Nucleic Acids. Synthesis and Hybridization Properties. <i>Nucleosides & Nucleotides</i> , 1999 , 18, 5-9		7
30	Peptide Nucleic Acid. A Molecule with Two Identities. <i>Accounts of Chemical Research</i> , 1999 , 32, 624-630	24.3	329
29	Antisense inhibition of gene expression in bacteria by PNA targeted to mRNA. <i>Nature Biotechnology</i> , 1998 , 16, 355-8	44.5	188
28	Kinetics for hybridization of peptide nucleic acids (PNA) with DNA and RNA studied with the BIAcore technique. <i>Biochemistry</i> , 1997 , 36, 5072-7	3.2	348
27	Crystal structure of a peptide nucleic acid (PNA) duplex at 1.7 Å resolution. <i>Nature Structural Biology</i> , 1997 , 4, 98-101		197
26	Fluorescein-conjugated lysine monomers for solid phase synthesis of fluorescent peptides and PNA oligomers. <i>Bioconjugate Chemistry</i> , 1997 , 8, 503-9	6.3	34
25	Enhanced peptide nucleic acid binding to supercoiled DNA: possible implications for DNA "breathing" dynamics. <i>Biochemistry</i> , 1996 , 35, 8863-9	3.2	114
24	Strand Displacement Binding of a Duplex-Forming Homopurine PNA to a Homopyrimidine Duplex DNA Target. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2287-2288	16.4	92
23	Transcription-mediated binding of peptide nucleic acid (PNA) to double-stranded DNA: sequence-specific suicide transcription. <i>Nucleic Acids Research</i> , 1996 , 24, 458-63	20.1	109
22	Peptide nucleic acid (PNA): A lead for gene therapeutic drugs. <i>Journal of Computer - Aided Molecular Design</i> , 1996 , 4, 76-84		10

21	Enhanced uranyl photocleavage across the minor groove of all (A/T) ₄ sequences indicates a similar narrow minor groove conformation. <i>Journal of Molecular Recognition</i> , 1996 , 9, 219-27	2.6	14
20	Peptide Nucleic Acids (PNAs) Containing Thymine Monomers Derived from Chiral Amino Acids: Hybridization and Solubility Properties of D-Lysine PNA. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1939-1942		171
19	Solid-phase synthesis of peptide nucleic acids. <i>Journal of Peptide Science</i> , 1995 , 1, 175-83	2.1	294
18	Template switching between PNA and RNA oligonucleotides. <i>Nature</i> , 1995 , 376, 578-81	50.4	211
17	Efficient pH-independent sequence-specific DNA binding by pseudoisocytosine-containing bis-PNA. <i>Nucleic Acids Research</i> , 1995 , 23, 217-22	20.1	278
16	Evidence for (PNA) ₂ /DNA triplex structure upon binding of PNA to dsDNA by strand displacement. <i>Journal of Molecular Recognition</i> , 1994 , 7, 165-70	2.6	111
15	Synthesis of Peptide Nucleic Acid Monomers Containing the Four Natural Nucleobases: Thymine, Cytosine, Adenine, and Guanine and Their Oligomerization. <i>Journal of Organic Chemistry</i> , 1994 , 59, 5767-5773	4.3	273
14	Sequence-specific transcription arrest by peptide nucleic acid bound to the DNA template strand. <i>Gene</i> , 1994 , 149, 139-45	3.8	161
13	Peptide Nucleic Acid (PNA). A Structural DNA Mimic. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 330, 3		1
12	PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules. <i>Nature</i> , 1993 , 365, 566-8	50.4	1769
11	Chemical and photochemical probing of DNA complexes. <i>Journal of Molecular Recognition</i> , 1990 , 3, 1-25	2.6	112
10	Photofootprinting of drug-binding sites on DNA using diazo- and azido-9-aminoacridine derivatives. <i>FEBS Journal</i> , 1989 , 182, 437-44		51
9	On the DNA bending by psoralen interstrand crosslinking. A gel electrophoretic study. <i>Photochemistry and Photobiology</i> , 1988 , 48, 643-6	3.6	8
8	Detection of intercalation-induced changes in DNA structure by reaction with diethyl pyrocarbonate or potassium permanganate. Evidence against the induction of Hoogsteen base pairing by echinomycin. <i>FEBS Letters</i> , 1988 , 231, 172-6	3.8	45
7	Psoralen photofootprinting of protein-binding sites on DNA. <i>FEBS Letters</i> , 1988 , 229, 73-6	3.8	15
6	Uranyl salts as photochemical agents for cleavage of DNA and probing of protein-DNA contacts. <i>FEBS Letters</i> , 1988 , 235, 122-4	3.8	58
5	Repair in <i>Escherichia coli</i> of a psoralen-DNA interstrand crosslink site specifically introduced into T410A411 of the plasmid pUC 19. <i>Photochemistry and Photobiology</i> , 1986 , 44, 47-51	3.6	17
4	On the structure of active chromatin. A flow linear dichroism study of chromatin fractionated by nuclease digestion. <i>FEBS Letters</i> , 1984 , 169, 309-12	3.8	13

- 3 Peptide Nucleic Acids (PNAs) as a Tool in Chemical Biology107-118
- 2 Chemical Biology of Peptide Nucleic Acids (PNAs)103-113 2
- 1 Cellular Bioavailability of Peptide Nucleic Acids (PNAs) Conjugated to Cell Penetrating Peptides305-338 4