Pawan Kumar

List of Publications by Year
in descending order

58	1,253	361045	433756
papers	citations	20 h-index	31 g-index

62	62	62	1398
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An LNA-amide modification that enhances the cell uptake and activity of phosphorothioate exon-skipping oligonucleotides. Nature Communications, 2022, 13, .	5.8	16
2	siRNAs containing 2â€²-fluorinated Northern-methanocarbacyclic (2â€²-F-NMC) nucleotides: in vitro and in vivo RNAi activity and inability of mitochondrial polymerases to incorporate 2â€²-F-NMCÂNTPs. Nucleic Acids Research, 2021, 49, 2435-2449.	6.5	12
3	Synthesis of 2â€²â€Fluorinated Northern Methanocarbacyclic (2â€²â€Fâ€NMC) Nucleosides and Their Incorporation Into Oligonucleotides. Current Protocols in Nucleic Acid Chemistry, 2020, 80, e103.	0.5	0
4	Chimeric siRNAs with chemically modified pentofuranose and hexopyranose nucleotides: altritol-nucleotide (ANA) containing GalNAcâ€“siRNA conjugates: in vitro and in vivo RNAi activity and resistance to 5â€²-exonuclease. Nucleic Acids Research, 2020, 48, 4028-4040.	6.5	27
5	Synthesis and Biophysical Characterization of RNAs Containing 2â€²-Fluorinated Northern Methanocarbacyclic Nucleotides. Organic Letters, 2019, 21, 1963-1967.	2.4	14
6	5â€²-Morpholino modification of the sense strand of an siRNA makes it a more effective passenger. Chemical Communications, 2019, 55, 5139-5142.	2.2	21
7	Baseâ€Pairing Properties of Doubleâ€Headed Nucleotides. Chemistry - A European Journal, 2019, 25, 7387-7395.	1.7	14
8	Synthesis, Affinity for Complementary RNA and DNA, and Enzymatic Stability of Triazole-Linked Locked Nucleic Acids (t-LNAs). ACS Omega, 2018, 3, 6976-6987.	1.6	14
9	PNA Hybrid Sequences as Recognition Units in SNAREâ€Proteinâ€Mimicking Peptides. Angewandte Chemie - International Edition, 2018, 57, 14932-14936.	7.2	11
10	PNAâ€Hybridsequenzen als Erkennungseinheiten in SNAREâ€Proteinâ€analogen Peptiden. Angewandte Chemie, 2018, 130, 15148-15152.	1.6	0
11	Synthesis, hybridization and fluorescence properties of a 2 â€² - C -pyrene-triazole modified arabino-uridine nucleotide. Bioorganic and Medicinal Chemistry, 2017, 25, 2084-2090.	1.4	3
12	Locked nucleic acid (LNA) enhances binding affinity of triazole-linked DNA towards RNA. Chemical Communications, 2017, 53, 8910-8913.	2.2	24
13	Condensing the information in DNA with double-headed nucleotides. Chemical Communications, 2017, 53, 9717-9720.	2.2	12
14	Double-Headed Nucleotides: Building Blocks for New Nucleic Acid Architectures. Australian Journal of Chemistry, 2016, 69, 1094.	0.5	13
15	Role of the transmembrane domain in SNARE protein mediated membrane fusion: peptide nucleic acid/peptide model systems. Molecular BioSystems, 2016, 12, 2770-2776.	2.9	20
16	Three new double-headed nucleotides with additional nucleobases connected to C-5 of pyrimidines; synthesis, duplex and triplex studies. Bioorganic and Medicinal Chemistry, 2016, 24, 742-749.	1.4	10
17	Increased duplex stabilization in porphyrin-LNA zipper arrays with structure dependent exciton coupling. Organic and Biomolecular Chemistry, 2016, 14, 149-157.	1.5	21
18	SNARE protein analogâ€mediated membrane fusion. Journal of Peptide Science, 2015, 21, 621-629.	0.8	22

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19	Allele-Selective Inhibition of Mutant Huntingtin with 2-Thio- and C5-Triazolylphenyl-Deoxythymidine-Modified Antisense Oligonucleotides. Nucleic Acid Therapeutics, 2015, 25, 266-274.	2.0	34
20	Double-headed nucleotides introducing thymine nucleobases in the major groove of nucleic acid duplexes. Organic and Biomolecular Chemistry, 2015, 13, 7040-7049.	1.5	12
21	Increasing the Stability of DNA:RNA Duplexes by Introducing Stacking Phenyl-Substituted Pyrazole, Furan, and Triazole Moieties in the Major Groove. Journal of Organic Chemistry, 2015, 80, 9592-9602.	1.7	21
22	Benzenesulfonamide bearing pyrazolylpyrazolines: synthesis and evaluation as anti-inflammatoryâ€“antimicrobial agents. Medicinal Chemistry Research, 2014, 23, 882-895.	1.1	14
23	Double-Headed Nucleotides with Arabino Configuration: SynthesisÂand Hybridization Properties. Journal of Organic Chemistry, 2014, 79, 11534-11540.	1.7	17
24	Dual evaluation of some novel 2-amino-substituted coumarinylthiazoles as anti-inflammatoryâ€“antimicrobial agents and their docking studies with COX-1/COX-2 active sites. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 476-484.	2.5	39
25	C5-Amino acid functionalized LNA: positively poised for antisense applications. Chemical Communications, 2014, 50, 9007-9009.	2.2	12
26	Double-Coding Nucleic Acids: Introduction of a Nucleobase Sequence in the Major Groove of the DNA Duplex Using Double-Headed Nucleotides. Journal of Organic Chemistry, 2014, 79, 8020-8030.	1.7	15
27	C5-Alkynyl-Functionalized Î±-L-LNA: Synthesis, Thermal Denaturation Experiments and Enzymatic Stability. Journal of Organic Chemistry, 2014, 79, 5062-5073.	1.7	7
28	Synthesis and Biophysical Properties of C5-Functionalized LNA (Locked Nucleic Acid). Journal of Organic Chemistry, 2014, 79, 5047-5061.	1.7	27
29	High-Affinity RNA Targeting by Oligonucleotides Displaying Aromatic Stacking and Amino Groups in the Major Groove. Comparison of Triazoles and Phenyl Substituents. Journal of Organic Chemistry, 2014, 79, 2854-2863.	1.7	30
30	Synthesis, Hybridization Characteristics, and Fluorescence Properties of Oligonucleotides Modified with Nucleobase-Functionalized Locked Nucleic Acid Adenosine and Cytidine Monomers. Journal of Organic Chemistry, 2014, 79, 6256-6268.	1.7	12
31	Metal- and solvent-free synthesis of N-sulfonylformamidines. Green Chemistry, 2013, 15, 2294.	4.6	41
32	The Extension of a DNA Double Helix by an Additional Watsonâ€“Crick Base Pair on the Same Backbone. ChemBioChem, 2013, 14, 1072-1074.	1.3	15
33	Synthesis of DNA oligonucleotides containing C5-ethynylbenzenesulfonamide-modified nucleotides (EBNA) by polymerases towards the construction of base functionalized nucleic acids. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 761-763.	1.0	13
34	Exploration of antimicrobial potential of pyrazolo[3,4-b]pyridine scaffold bearing benzenesulfonamide and trifluoromethyl moieties. Medicinal Chemistry Research, 2013, 22, 5490-5503.	1.1	17
35	Synthesis of some novel 4-arylidene pyrazoles as potential antimicrobial agents. Organic and Medicinal Chemistry Letters, 2013, 3, 9.	2.0	28
36	Identification and Characterization of Second-Generation Invader Locked Nucleic Acids (LNAs) for Mixed-Sequence Recognition of Double-Stranded DNA. Journal of Organic Chemistry, 2013, 78, 9560-9570.	1.7	32

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37	Synthesis of 2â€²-O-(thymin-1-yl)methyluridine and its incorporation into secondary nucleic acid structures. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6847-6850.	1.0	13
38	Fluorescent intercalator displacement replacement (FIDR) assay: determination of relative thermodynamic and kinetic parameters in triplex formationâ€"a case study using triplex-forming LNAs. Nucleic Acids Research, 2012, 40, e162-e162.	6.5	11
39	Synthesis and Biological Evaluation of Some Novel Thiazolylhydrazinomethylideneferrocenes as Antimicrobial Agents. Letters in Drug Design and Discovery, 2012, 9, 63-68.	0.4	11
40	Synthesis of 1-(4-aminosulfonylphenyl)-3,5-diarylpyrazoline derivatives as potent antiinflammatory and antimicrobial agents. Medicinal Chemistry Research, 2012, 21, 2945-2954.	1.1	18
41	Heteroaromatic analogues of 1,5-diarylpyrazole class as anti-inflammatory agents. Medicinal Chemistry Research, 2012, 21, 3757-3766.	1.1	19
42	Synthesis and hybridization properties of oligonucleotides modified with 5-(1-aryl-1,2,3-triazol-4-yl)-2â€²-deoxyuridines. Organic and Biomolecular Chemistry, 2012, 10, 8575.	1.5	10
43	Sulfonamide bearing oligonucleotides: Simple synthesis and efficient RNA recognition. Bioorganic and Medicinal Chemistry, 2012, 20, 3843-3849.	1.4	20
44	Three Pyrene-Modified Nucleotides: Synthesis and Effects in Secondary Nucleic Acid Structures. Journal of Organic Chemistry, 2012, 77, 9562-9573.	1.7	23
45	Synthesis and biological evaluation of some pyrazole derivatives as anti-inflammatoryâ€"antibacterial agents. Medicinal Chemistry Research, 2012, 21, 3396-3405.	1.1	36
46	Additional Base-Pair Formation in DNA Duplexes by a Double-Headed Nucleotide. Chemistry - A European Journal, 2012, 18, 7434-7442.	1.7	19
47	Preparation of C5-Functionalized Locked Nucleic Acids (LNAs). , 2011, Chapter 4, 4.43.1-4.43.22.		4
48	Synthesis and anti-inflammatory evaluation of some pyrazolo[3,4-b]pyridines. Medicinal Chemistry Research, 2011, 20, 239-244.	1.1	35
49	C5â€Functionalized DNA, LNA, and Î±â€•L â€LNA: Positional Control of Polarityâ€Sensitive Fluorophores Leads to Improved SNPâ€Typing. Chemistry - A European Journal, 2011, 17, 3157-3165.	1.7	33
50	Synthesis and biological evaluation of some 4-functionalized-pyrazoles as antimicrobial agents. European Journal of Medicinal Chemistry, 2011, 46, 1425-1432.	2.6	60
51	Efficient RNA-targeting by the introduction of aromatic stacking in the duplex major groove via 5-(1-phenyl-1,2,3-triazol-4-yl)-2â€²-deoxyuridines. Bioorganic and Medicinal Chemistry, 2010, 18, 4702-4710.	1.4	36
52	Synthesis and biological evaluation of some pyrazolylpyrazolines as anti-inflammatoryâ€"antimicrobial agents. European Journal of Medicinal Chemistry, 2010, 45, 2650-2655.	2.6	109
53	Pyrene-functionalized triazole-linked 2â€²-deoxyuridinesâ€"probes for discrimination of single nucleotide polymorphisms (SNPs). Chemical Communications, 2010, 46, 4929.	2.2	40
54	Polymerase-directed synthesis of C5-ethynyl locked nucleic acids. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6565-6568.	1.0	22

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55	C5â€Functionalized LNA: Unparalleled Hybridization Properties and Enzymatic Stability. ChemBioChem, 2009, 10, 2740-2743.	1.3	18
56	Optimized DNA-targeting using triplex forming C5-alkynyl functionalized LNA. Chemical Communications, 2009, , 6756.	2.2	19
57	Optimized synthesis of LNA uracil nucleosides. Tetrahedron Letters, 2008, 49, 7168-7170.	0.7	16
58	Selective reduction of mono- and disubstituted olefins by NaBH4 and catalytic RuCl3. Tetrahedron Letters, 2007, 48, 8704-8708.	0.7	40