

# Pawan Kumar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1406781/publications.pdf>

Version: 2024-02-01

58  
papers

1,253  
citations

361045

20  
h-index

433756

31  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and biological evaluation of some pyrazolylpyrazolines as anti-inflammatory and antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 2650-2655.	2.6	109
2	Synthesis and biological evaluation of some 4-functionalized-pyrazoles as antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 1425-1432.	2.6	60
3	Metal- and solvent-free synthesis of N-sulfonylformamidines. <i>Green Chemistry</i> , 2013, 15, 2294.	4.6	41
4	Selective reduction of mono- and disubstituted olefins by NaBH <sub>4</sub> and catalytic RuCl <sub>3</sub> . <i>Tetrahedron Letters</i> , 2007, 48, 8704-8708.	0.7	40
5	Pyrene-functionalized triazole-linked 2'-deoxyuridines as probes for discrimination of single nucleotide polymorphisms (SNPs). <i>Chemical Communications</i> , 2010, 46, 4929.	2.2	40
6	Dual evaluation of some novel 2-amino-substituted coumarinylthiazoles as anti-inflammatory and antimicrobial agents and their docking studies with COX-1/COX-2 active sites. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 476-484.	2.5	39
7	Efficient RNA-targeting by the introduction of aromatic stacking in the duplex major groove via 5-(1-phenyl-1,2,3-triazol-4-yl)-2'-deoxyuridines. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4702-4710.	1.4	36
8	Synthesis and biological evaluation of some pyrazole derivatives as anti-inflammatory and antibacterial agents. <i>Medicinal Chemistry Research</i> , 2012, 21, 3396-3405.	1.1	36
9	Synthesis and anti-inflammatory evaluation of some pyrazolo[3,4-b]pyridines. <i>Medicinal Chemistry Research</i> , 2011, 20, 239-244.	1.1	35
10	Allele-Selective Inhibition of Mutant Huntingtin with 2-Thio- and C5-Triazolylphenyl-Deoxythymidine-Modified Antisense Oligonucleotides. <i>Nucleic Acid Therapeutics</i> , 2015, 25, 266-274.	2.0	34
11	C5-Functionalized DNA, LNA, and LNA: Positional Control of Polarity-Sensitive Fluorophores Leads to Improved SNP Typing. <i>Chemistry - A European Journal</i> , 2011, 17, 3157-3165.	1.7	33
12	Identification and Characterization of Second-Generation Invader Locked Nucleic Acids (LNAs) for Mixed-Sequence Recognition of Double-Stranded DNA. <i>Journal of Organic Chemistry</i> , 2013, 78, 9560-9570.	1.7	32
13	High-Affinity RNA Targeting by Oligonucleotides Displaying Aromatic Stacking and Amino Groups in the Major Groove. Comparison of Triazoles and Phenyl Substituents. <i>Journal of Organic Chemistry</i> , 2014, 79, 2854-2863.	1.7	30
14	Synthesis of some novel 4-arylidene pyrazoles as potential antimicrobial agents. <i>Organic and Medicinal Chemistry Letters</i> , 2013, 3, 9.	2.0	28
15	Synthesis and Biophysical Properties of C5-Functionalized LNA (Locked Nucleic Acid). <i>Journal of Organic Chemistry</i> , 2014, 79, 5047-5061.	1.7	27
16	Chimeric siRNAs with chemically modified pentofuranose and hexopyranose nucleotides: altritol-nucleotide (ANA) containing GalNAc-siRNA conjugates: in vitro and in vivo RNAi activity and resistance to 5'-exonuclease. <i>Nucleic Acids Research</i> , 2020, 48, 4028-4040.	6.5	27
17	Locked nucleic acid (LNA) enhances binding affinity of triazole-linked DNA towards RNA. <i>Chemical Communications</i> , 2017, 53, 8910-8913.	2.2	24
18	Three Pyrene-Modified Nucleotides: Synthesis and Effects in Secondary Nucleic Acid Structures. <i>Journal of Organic Chemistry</i> , 2012, 77, 9562-9573.	1.7	23

#	ARTICLE	IF	CITATIONS
19	Polymerase-directed synthesis of C5-ethynyl locked nucleic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6565-6568.	1.0	22
20	SNARE protein analog-mediated membrane fusion. <i>Journal of Peptide Science</i> , 2015, 21, 621-629.	0.8	22
21	Increasing the Stability of DNA:RNA Duplexes by Introducing Stacking Phenyl-Substituted Pyrazole, Furan, and Triazole Moieties in the Major Groove. <i>Journal of Organic Chemistry</i> , 2015, 80, 9592-9602.	1.7	21
22	Increased duplex stabilization in porphyrin-LNA zipper arrays with structure dependent exciton coupling. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 149-157.	1.5	21
23	5'-Morpholino modification of the sense strand of an siRNA makes it a more effective passenger. <i>Chemical Communications</i> , 2019, 55, 5139-5142.	2.2	21
24	Sulfonamide bearing oligonucleotides: Simple synthesis and efficient RNA recognition. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 3843-3849.	1.4	20
25	Role of the transmembrane domain in SNARE protein mediated membrane fusion: peptide nucleic acid/peptide model systems. <i>Molecular BioSystems</i> , 2016, 12, 2770-2776.	2.9	20
26	Optimized DNA-targeting using triplex forming C5-alkynyl functionalized LNA. <i>Chemical Communications</i> , 2009, , 6756.	2.2	19
27	Heteroaromatic analogues of 1,5-diarylpyrazole class as anti-inflammatory agents. <i>Medicinal Chemistry Research</i> , 2012, 21, 3757-3766.	1.1	19
28	Additional Base-Pair Formation in DNA Duplexes by a Double-Headed Nucleotide. <i>Chemistry - A European Journal</i> , 2012, 18, 7434-7442.	1.7	19
29	C5-Functionalized LNA: Unparalleled Hybridization Properties and Enzymatic Stability. <i>ChemBioChem</i> , 2009, 10, 2740-2743.	1.3	18
30	Synthesis of 1-(4-aminosulfonylphenyl)-3,5-diarylpyrazoline derivatives as potent antiinflammatory and antimicrobial agents. <i>Medicinal Chemistry Research</i> , 2012, 21, 2945-2954.	1.1	18
31	Exploration of antimicrobial potential of pyrazolo[3,4-b]pyridine scaffold bearing benzenesulfonamide and trifluoromethyl moieties. <i>Medicinal Chemistry Research</i> , 2013, 22, 5490-5503.	1.1	17
32	Double-Headed Nucleotides with Arabino Configuration: Synthesis and Hybridization Properties. <i>Journal of Organic Chemistry</i> , 2014, 79, 11534-11540.	1.7	17
33	Optimized synthesis of LNA uracil nucleosides. <i>Tetrahedron Letters</i> , 2008, 49, 7168-7170.	0.7	16
34	An LNA-amide modification that enhances the cell uptake and activity of phosphorothioate exon-skipping oligonucleotides. <i>Nature Communications</i> , 2022, 13, .	5.8	16
35	The Extension of a DNA Double Helix by an Additional Watson-Crick Base Pair on the Same Backbone. <i>ChemBioChem</i> , 2013, 14, 1072-1074.	1.3	15
36	Double-Coding Nucleic Acids: Introduction of a Nucleobase Sequence in the Major Groove of the DNA Duplex Using Double-Headed Nucleotides. <i>Journal of Organic Chemistry</i> , 2014, 79, 8020-8030.	1.7	15

#	ARTICLE	IF	CITATIONS
37	Benzenesulfonamide bearing pyrazolylpyrazolines: synthesis and evaluation as anti-inflammatory and antimicrobial agents. <i>Medicinal Chemistry Research</i> , 2014, 23, 882-895.	1.1	14
38	Synthesis, Affinity for Complementary RNA and DNA, and Enzymatic Stability of Triazole-Linked Locked Nucleic Acids (t-LNAs). <i>ACS Omega</i> , 2018, 3, 6976-6987.	1.6	14
39	Synthesis and Biophysical Characterization of RNAs Containing 2-Fluorinated Northern Methanocarbacyclic Nucleotides. <i>Organic Letters</i> , 2019, 21, 1963-1967.	2.4	14
40	Base Pairing Properties of Double-Headed Nucleotides. <i>Chemistry - A European Journal</i> , 2019, 25, 7387-7395.	1.7	14
41	Synthesis of DNA oligonucleotides containing C5-ethynylbenzenesulfonamide-modified nucleotides (EBNA) by polymerases towards the construction of base functionalized nucleic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 761-763.	1.0	13
42	Synthesis of 2-O-(thymine-1-yl)methyluridine and its incorporation into secondary nucleic acid structures. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 6847-6850.	1.0	13
43	Double-Headed Nucleotides: Building Blocks for New Nucleic Acid Architectures. <i>Australian Journal of Chemistry</i> , 2016, 69, 1094.	0.5	13
44	C5-Amino acid functionalized LNA: positively poised for antisense applications. <i>Chemical Communications</i> , 2014, 50, 9007-9009.	2.2	12
45	Synthesis, Hybridization Characteristics, and Fluorescence Properties of Oligonucleotides Modified with Nucleobase-Functionalized Locked Nucleic Acid Adenosine and Cytidine Monomers. <i>Journal of Organic Chemistry</i> , 2014, 79, 6256-6268.	1.7	12
46	Double-headed nucleotides introducing thymine nucleobases in the major groove of nucleic acid duplexes. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7040-7049.	1.5	12
47	Condensing the information in DNA with double-headed nucleotides. <i>Chemical Communications</i> , 2017, 53, 9717-9720.	2.2	12
48	siRNAs containing 2-fluorinated Northern-methanocarbacyclic (2-F-NMC) nucleotides: <i>in vitro</i> and <i>in vivo</i> RNAi activity and inability of mitochondrial polymerases to incorporate 2-F-NMC-NTPs. <i>Nucleic Acids Research</i> , 2021, 49, 2435-2449.	6.5	12
49	Fluorescent intercalator displacement replacement (FIDR) assay: determination of relative thermodynamic and kinetic parameters in triplex formation—a case study using triplex-forming LNAs. <i>Nucleic Acids Research</i> , 2012, 40, e162-e162.	6.5	11
50	Synthesis and Biological Evaluation of Some Novel Thiazolylhydrazinomethylideneferrocenes as Antimicrobial Agents. <i>Letters in Drug Design and Discovery</i> , 2012, 9, 63-68.	0.4	11
51	PNA Hybrid Sequences as Recognition Units in SNARE-Protein-Mimicking Peptides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14932-14936.	7.2	11
52	Synthesis and hybridization properties of oligonucleotides modified with 5-(1-aryl-1,2,3-triazol-4-yl)-2-deoxyuridines. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8575.	1.5	10
53	Three new double-headed nucleotides with additional nucleobases connected to C-5 of pyrimidines; synthesis, duplex and triplex studies. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 742-749.	1.4	10
54	C5-Alkynyl-Functionalized L-LNA: Synthesis, Thermal Denaturation Experiments and Enzymatic Stability. <i>Journal of Organic Chemistry</i> , 2014, 79, 5062-5073.	1.7	7

#	ARTICLE	IF	CITATIONS
55	Preparation of C5-Functionalized Locked Nucleic Acids (LNAs). , 2011, Chapter 4, 4.43.1-4.43.22.		4
56	Synthesis, hybridization and fluorescence properties of a 2'-C -pyrene-triazole modified arabinouridine nucleotide. Bioorganic and Medicinal Chemistry, 2017, 25, 2084-2090.	1.4	3
57	PNA-Hybridsequenzen als Erkennungseinheiten in SNARE-Protein-analogen Peptiden. Angewandte Chemie, 2018, 130, 15148-15152.	1.6	0
58	Synthesis of 2'-Fluorinated Northern Methanocarbocyclic (2'-F-NMC) Nucleosides and Their Incorporation Into Oligonucleotides. Current Protocols in Nucleic Acid Chemistry, 2020, 80, e103.	0.5	0