Krishna N Ganesh

List of Publications by Citations

59 papers	1,364 citations	21 h-index	35 g-index
195 ext. papers	1,519 ext. citations	6.8 avg, IF	4.71 L-index

#	Paper	IF	Citations
59	Conformationally constrained PNA analogues: structural evolution toward DNA/RNA binding selectivity. *Accounts of Chemical Research*, **2005**, 38, 404-12	24.3	145
58	Peptide Nucleic Acids: Analogs and Derivatives. *Current Organic Chemistry*, **2000**, 4, 931-943	1.7	125
57	Enhanced triple helix stability of collagen peptides with 4R-aminoprolyl (Amp) residues: relative roles of electrostatic and hydrogen bonding effects. *Journal of the American Chemical Society*, **2001**, 123, 2079-80	16.4	92
56	Fluorescent d(CGCGAATTCGCG): characterization of major groove polarity and study of minor groove interactions through a major groove semantophore conjugate. *Nucleic Acids Research*, **1995**, 23, 159-64	20.1	91
55	DNA-mediated electrostatic assembly of gold nanoparticles into linear arrays by a simple drop-coating procedure. *Applied Physics Letters*, **2001**, 78, 2943-2945	3.4	75
54	Aminoethylprolyl peptide nucleic acids (aepPNA): chiral PNA analogues that form highly stable DNA:aepPNA2 triplexes. *Organic Letters*, **1999**, 1, 1513-6	6.2	63
53	Aminoethylprolyl (aep) PNA: mixed purine/pyrimidine oligomers and binding orientation preferences for PNA:DNA duplex formation. *Organic Letters*, **2001**, 3, 1281-4	6.2	44
52	Aminomethylene peptide nucleic acid (am-PNA): synthesis, regio-/stereospecific DNA binding, and differential cell uptake of (R/S)am-PNA analogues. *Journal of Organic Chemistry*, **2012**, 77, 5696-704	4.2	43
51	(SR/RS)-cyclohexanyl PNAs: conformationally preorganized PNA analogues with unprecedented preference for duplex formation with RNA. *Journal of the American Chemical Society*, **2005**, 127, 4144-5	16.4	43
50	(1S,2R/1R,2S)-ainocyclohexyl glycyl thymine PNA: synthesis, monomer crystal structures, and DNA/RNA hybridization studies. *Organic Letters*, **2003**, 5, 3013-6	6.2	41
49	Chiral analogues of peptide nucleic acids: Synthesis of 4-aminoprolyl nucleic acids and DNA complementation studies using UV/CD spectroscopy. *Tetrahedron*, **1999**, 55, 177-192	2.4	41
48	Pyrrolidine nucleic acids: DNA/PNA oligomers with 2-hydroxy/aminomethyl-4-(thymin-1-yl)pyrrolidine-N-acetic acid. *Organic Letters*, **2001**, 3, 1269-72	6.2	35
47	Polarity Sensing by Fluorescent Oligonucleotides: First Demonstration of Sequence-Dependent Microenvironmental Changes in the DNA Major Groove. *Journal of Physical Chemistry B*, **1999**, 103, 7383-7385	3.4	30
46	Cyclohexanyl peptide nucleic acids (chPNAs) for preferential RNA binding: effective tuning of dihedral angle beta in PNAs for DNA/RNA discrimination. *Journal of Organic Chemistry*, **2006**, 71, 14-21	4.2	27
45	Cyanuryl-PNA monomer: synthesis and crystal structure. *Organic Letters*, **2000**, 2, 2825-8	6.2	27
44	Conformationally Restrained Chiral Analogues of Spermine: Chemical Synthesis and Improvements in DNA Triplex Stability *Journal of Organic Chemistry*, **1997**, 62, 5169-5173	4.2	25
43	Influence of pendant chiral C( )-(alkylideneamino/guanidino) cationic side-chains of PNA backbone on hybridization with complementary DNA/RNA and cell permeability. *Journal of Organic Chemistry*, **2014**, 79, 9567-77	4.2	24

42	Studies on the Formation of DNA□Cationic Lipid Composite Films and DNA Hybridization in the Composites. *Journal of Physical Chemistry B*, **2001**, 105, 4409-4414	3.4	24
41	Water-induced switching of ▯structure to polyproline II conformation in the 4S-aminoproline polypeptide via H-bond rearrangement. *Organic Letters*, **2010**, 12, 5390-3	6.2	23
40	Perfluoroalkylchain conjugation as a new tactic for enhancing cell permeability of peptide nucleic acids (PNAs) via reducing the nanoparticle size. *Chemical Communications*, **2016**, 52, 521-4	5.8	22
39	New archetypes in self-assembled Phe-Phe motif induced nanostructures from nucleoside conjugated-diphenylalanines. *Nanoscale*, **2018**, 10, 3212-3224	7.7	22
38	cis-Cyclopentyl PNA (cpPNA) as constrained chiral PNA analogues: stereochemical dependence of DNA/RNA hybridization. *Chemical Communications*, **2004**, 860-1	5.8	21
37	(1S,2R/1R,2S)-cis-cyclopentyl PNAs (cpPNAs) as constrained PNA analogues: synthesis and evaluation of aeg-cpPNA chimera and stereopreferences in hybridization with DNA/RNA. *Journal of Organic Chemistry*, **2004**, 69, 5725-34	4.2	21
36	Pyrrolidyl polyamines: branched, chiral polyamine analogues that stabilize DNA duplexes and triplexes. *Organic Letters*, **2001**, 3, 103-6	6.2	20
35	Fluorinated Peptide Nucleic Acids with Fluoroacetyl Side Chain Bearing 5-(F/CF3)-Uracil: Synthesis and Cell Uptake Studies. *Journal of Organic Chemistry*, **2016**, 81, 6364-73	4.2	19
34	BisPNA Targeting to DNA: Effect of Neutral Loop on DNA Duplex Strand Invasion by aepPNA-N7G/aepPNA-C Substituted Peptide Nucleic Acids. *European Journal of Organic Chemistry*, **2005**, 2005, 5207-5215	3.2	16
33	Orchestration of Structural, Stereoelectronic, and Hydrogen-Bonding Effects in Stabilizing Triplexes from Engineered Chimeric Collagen Peptides (Pro(X)-Pro(Y)-Gly)6 Incorporating 4(R/S)-Aminoproline. *Journal of Organic Chemistry*, **2015**, 80, 8552-60	4.2	13
32	4(R/S)-Guanidinylprolyl collagen peptides: on-resin synthesis, complexation with plasmid DNA, and the role of peptides in enhancement of transfection. *Journal of Organic Chemistry*, **2012**, 77, 4131-5	4.2	13
31	Structural Design and Synthesis of Bimodal PNA That Simultaneously Binds Two Complementary DNAs To Form Fused Double Duplexes. *Organic Letters*, **2020**, 22, 5255-5260	6.2	12
30	Receptor-Specific Delivery of Peptide Nucleic Acids Conjugated to Three Sequentially Linked -Acetyl Galactosamine Moieties into Hepatocytes. *Journal of Organic Chemistry*, **2020**, 85, 8812-8824	4.2	11
29	A nanofiber assembly directed by the non-classical antiparallel ▯structure from 4S-(OH) proline polypeptide. *Chemical Communications*, **2016**, 52, 4884-7	5.8	11
28	Clickable C□azido(methylene/butylene) peptide nucleic acids and their clicked fluorescent derivatives: synthesis, DNA hybridization properties, and cell penetration studies. *Journal of Organic Chemistry*, **2014**, 79, 6708-14	4.2	10
27	(▯dimethyl)glycyl (dmg) PNAs: achiral PNA analogs that form stronger hybrids with cDNA relative to isosequential RNA. *Artificial DNA, PNA & XNA*, **2012**, 3, 5-13		10
26	C▯)-Bimodal Peptide Nucleic Acids (C□PNA) Form Coupled Double Duplexes by Synchronous Binding to Two Complementary DNA Strands. *Journal of Organic Chemistry*, **2020**, 85, 13680-13693	4.2	10
25	Peptide Nucleic Acid with Double Face: Homothymine-Homocytosine Bimodal C□PNA (-C□PNA) Forms a Double Duplex of the -PNA:DNA Triplex. *Journal of Organic Chemistry*, **2021**, 86, 414-428	4.2	10

24	Modeling Glyco-Collagen Conjugates Using a Host-Guest Strategy To Alter Phenotypic Cell Migration and in Vivo Wound Healing. *ACS Nano*, **2017**, 11, 11969-11977	16.7	9
23	5-Amido-(carboxyfluorescein)-2?-dU-oligonucloetides: Novel Primers for Fluorescent Detection of PCR Amplified DNA. *Nucleosides & Nucleotides*, **1997**, 16, 107-114		8
22	A conformation-specific IR spectroscopic signature for weak C[double bond, length as m-dash]OC[double bond, length as m-dash]O n-π interaction in capped 4R-hydroxyproline. *Physical Chemistry Chemical Physics*, **2019**, 21, 4755-4762	3.6	8
21	SbCl3 as a Highly Efficient Catalyst for the Acetylation of Alcohols, Phenols, and Amines under Solvent-Free Conditions. *Synthetic Communications*, **2008**, 38, 1518-1526	1.7	7
20	4(R/S)-Amino/guanidino-substituted proline peptides: design, synthesis and DNA transfection properties. *Chimia*, **2012**, 66, 936-40	1.3	5
19	Modulation of DNA Triplex Stability Through Nucleobase Modifications. *Nucleosides & Nucleotides*, **1997**, 16, 1271-1278		5
18	Stereodependent and solvent-specific formation of unusual structure through side chain-backbone H-bonding in C4(S)-(NH /OH/NHCHO)-L-prolyl polypeptides. *Biopolymers*, **2017**, 108, e22981	2.2	4
17	5-Amidodansyl-U (UD) Peptide Nucleic Acid (PNA) as a Fluorescent Sensor of the Local Dielectric Constant in PNA Duplexes: Major Grooves in PNA Duplexes Are More Hydrophobic Than Major Grooves in DNA·DNA Duplexes. *Journal of Physical Chemistry C*, **2018**, 122, 14004-14013	3.8	3
16	Sequential entrapment of PNA and DNA in lipid bilayers stacks. *Chemical Communications*, **2001**, 2622-2623	3.8	3
15	Spiegelmeric 4R/S-hydroxy/amino-L/D-prolyl collagen peptides: conformation and morphology of self-assembled structures. *Peptide Science*, **2020**, 112, e24140	3	2
14	Green Chemistry: A Framework for a Sustainable Future. *Organometallics*, **2021**, 40, 1801-1805	3.8	2
13	Green Chemistry: A Framework for a Sustainable Future. *Environmental Science and Technology Letters*, **2021**, 8, 487-491	11	2
12	Molecular Assembly of Triplex of Duplexes from Homothyminyl-Homocytosinyl C( )-Bimodal Peptide Nucleic Acids with dA/dG and the Cell Permeability of Bimodal Peptide Nucleic Acids. *ACS Omega*, **2021**, 6, 19757-19770	3.9	2
11	Silver assisted stereo-directed assembly of branched peptide nucleic acids into four-point nanostars. *Nanoscale*, **2020**, 12, 21665-21673	7.7	1
10	Gem-dimethyl peptide nucleic acid (-PNA) monomers: synthesis and the role of -substituents in preferential stabilisation of /-rotamers. *Organic and Biomolecular Chemistry*, **2021**, 19, 6534-6545	3.9	1
9	Effect of Stereochemistry and Hydrophobicity on the Self-assembly of Phe-Phe-Nucleoside Conjugates. *Macromolecular Chemistry and Physics*,2200011	2.6	1
8	Conformation and Morphology of 4-(NH/OH)-Substituted l/d-Prolyl Polypeptides: Effect of Homo- and Heterochiral Backbones on Formation of Structures and Nanofibers. *ACS Omega*, **2020**, 5, 21781-21795	3.9	0
7	Confronting Racism in Chemistry Journals. *ACS Applied Nano Materials*, **2020**, 3, 6131-6133	5.6	

List of Publications

6	Confronting Racism in Chemistry Journals. *ACS Applied Polymer Materials*, **2020**, 2, 2496-2498	4.3
5	Confronting Racism in Chemistry Journals. *Organometallics*, **2020**, 39, 2331-2333	3.8
4	Update to Our Reader, Reviewer, and Author Communities: April 2020. *Energy & Fuels*, **2020**, 34, 5107-5108	4.1
3	Update to Our Reader, Reviewer, and Author Communities: April 2020. *Organometallics*, **2020**, 39, 1665-1666	3.8
2	Confronting Racism in Chemistry Journals. *Journal of Chemical Health and Safety*, **2020**, 27, 198-200	1.7
1	Green Chemistry: A Framework for a Sustainable Future. *Industrial & Engineering Chemistry Research*, **2021**, 60, 8964-8968	3.9