Montserrat Terrazas

List of Publications by Year
in descending order

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32 papers	454 citations	758635 12 h-index	752256 20 g-index
37 all docs	37 docs citations	37 times ranked	572 citing authors

#	Article	IF	Citations
1	RNA major groove modifications improve siRNA stability and biological activity. Nucleic Acids Research, 2009, 37, 346-353.	6.5	79
2	A Multidisciplinary Approach for the Identification of Novel HIVâ€1 Nonâ€Nucleoside Reverse Transcriptase Inhibitors: Sâ€DABOCs and DAVPs. ChemMedChem, 2008, 3, 573-593.	1.6	37
3	Modified siRNAs for the study of the PAZ domain. Chemical Communications, 2010, 46, 4270.	2.2	34
4	Effect of North Bicyclo[3.1.0]hexane 2â€²â€Deoxyâ€pseudosugars on RNA Interference: A Novel Class of siRNA Modification. ChemBioChem, 2011, 12, 1056-1065.	1.3	30
5	Enzymatically Catalyzed DNA Synthesis Using <scp>L</scp>â€Aspâ€dGMP, <scp>L</scp>â€Aspâ€dCMP, and <scp>L</scp>â€Aspâ€dTMP. Chemistry and Biodiversity, 2008, 5, 31-39.	1.0	23
6	Mechanism of reaction of RNA-dependent RNA polymerase from SARS-CoV-2. Chem Catalysis, 2022, 2, 1084-1099.	2.9	20
7	Discovery of Non-Nucleoside Inhibitors of HIV-1 Reverse Transcriptase Competing with the Nucleotide Substrate. Angewandte Chemie - International Edition, 2007, 46, 1810-1813.	7.2	19
8	An artificial DNAzyme RNA ligase shows a reaction mechanism resembling that of cellular polymerases. Nature Catalysis, 2019, 2, 544-552.	16.1	18
9	Efficient siRNAâ€“peptide conjugation for specific targeted delivery into tumor cells. Chemical Communications, 2017, 53, 2870-2873.	2.2	16
10	Modulation of the RNA Interference Activity Using Central Mismatched siRNAs and Acyclic Threoninol Nucleic Acids (aTNA) Units. Molecules, 2015, 20, 7602-7619.	1.7	15
11	Stepwise synthesis of oligonucleotideâ€“peptide conjugates containing guanidinium and lipophilic groups in their 3â€²-termini. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2144-2147.	1.0	14
12	Functionalization of the 3â€²â€Ends of DNA and RNA Strands with Nâ€ethylâ€Nâ€coupled Nucleosides: A Promising Approach To Avoid 3â€²â€Exonucleaseâ€Catalyzed Hydrolysis of Therapeutic Oligonucleotides. ChemBioChem, 2013, 14, 510-520.	1.3	13
13	RNA/aTNA Chimeras: RNAi Effects and Nucleases Resistance of Single and Double Stranded RNAs. Molecules, 2014, 19, 17872-17896.	1.7	13
14	The Origins and the Biological Consequences of the Pur/Pyr DNAÂ·RNA Asymmetry. CheM, 2019, 5, 1619-1631.	5.8	13
15	A Direct, Efficient Method for the Preparation of siRNAs Containing Ribo-like North Bicyclo[3.1.0]hexane Pseudosugars. Organic Letters, 2011, 13, 2888-2891.	2.4	12
16	A Direct, Efficient Method for the Preparation of N6-Protected15N-Labeled Adenosines. Journal of Organic Chemistry, 2004, 69, 5473-5475.	1.7	11
17	Synthesis, RNAi activity and nuclease-resistant properties of apolar carbohydrates siRNA conjugates. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 4048-4051.	1.0	11
18	Rational design of novel N-alkyl-N capped biostable RNA nanostructures for efficient long-term inhibition of gene expression. Nucleic Acids Research, 2016, 44, 4354-4367.	6.5	9

#	Article	IF	Citations
19	Synthesis of Oligonucleotideâ€“Peptide Conjugates for Biomedical and Technological Applications. Methods in Molecular Biology, 2011, 751, 223-238.	0.4	9
20	A novel nucleophilic approach to 1-alkyladenosines. A two-step synthesis of [1-15N]adenosine from inosine. Chemical Communications, 2005, , 3968.	2.2	8
21	[N,1-15N2]-2â€˜-Deoxyadenosines. Organic Letters, 2005, 7, 2477-2479.	2.4	8
22	Pd-catalysed amidation of 2,6-dihalopurine nucleosides. Replacement of iodine at 0Â°C. Tetrahedron Letters, 2012, 53, 1358-1362.	0.7	8
23	Synthesis and Properties of Oligonucleotides Carrying Isoquinoline Imidazo[1,2-a]azine Fluorescent Units. Bioconjugate Chemistry, 2010, 21, 1622-1628.	1.8	7
24	Can A Denaturant Stabilize DNA? Pyridine Reverses DNA Denaturation in Acidic pH. Angewandte Chemie - International Edition, 2015, 54, 10488-10491.	7.2	7
25	The Impact of the HydroxyMethylCytosine epigenetic signature on DNA structure and function. PLoS Computational Biology, 2021, 17, e1009547.	1.5	6
26	Synthesis and properties of small interfering RNA duplexes carrying 5-ethyluridine residues. Molecular Diversity, 2011, 15, 677-686.	2.1	4
27	Advantages of the Ns group in the reactions of N1-SO2R inosines with benzylamine and with 15NH3. Tetrahedron Letters, 2005, 46, 5127-5130.	0.7	3
28	A multifunctional toolkit for target-directed cancer therapy. Chemical Communications, 2019, 55, 802-805.	2.2	1
29	Molecular basis of Arginine and Lysine DNA sequence-dependent thermo-stability modulation. PLoS Computational Biology, 2022, 18, e1009749.	1.5	1
30	Inside Cover: Effect of North Bicyclo[3.1.0]hexane 2â€²-Deoxy-pseudosugars on RNA Interference: A Novel Class of siRNA Modification (ChemBioChem 7/2011). ChemBioChem, 2011, 12, 974-974.	1.3	0
31	Challenges and Opportunities for Oligonucleotide-Based Therapeutics by Antisense and RNA Interference Mechanisms. , 2014, , 227-242.		0
32	Dynamics-Function Analysis in Catalytic RNA Using NMR Spin Relaxation and Conformationally Restricted Nucleotides. Methods in Molecular Biology, 2021, 2167, 183-202.	0.4	0