

Juan C Morales

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97
papers

3,626
citations

33
h-index

57
g-index

107
ext. papers

3,950
ext. citations

5.8
avg. IF

5.29
L-index

#	Paper	IF	Citations
97	Mimicking the Structure and Function of DNA: Insights into DNA Stability and Replication. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 990-1009	16.4	261
96	Efficient replication between non-hydrogen-bonded nucleoside shape analogs. <i>Nature Structural Biology</i> , 1998 , 5, 950-4		254
95	Minor Groove Interactions between Polymerase and DNA: More Essential to Replication than Watson-Crick Hydrogen Bonds?. <i>Journal of the American Chemical Society</i> , 1999 , 121, 2323-2324	16.4	168
94	Synthesis and evaluation of new phenolic-based antioxidants: Structure-activity relationship. <i>Food Chemistry</i> , 2007 , 103, 55-61	8.5	137
93	Chemical Double-Mutant Cycles for the Measurement of Weak Intermolecular Interactions: Edge-to-Face Aromatic Interactions. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1542-1544		135
92	Cooperative Interactions in a Ternary Mixture. <i>Chemistry - A European Journal</i> , 1998 , 4, 845-851	4.8	125
91	Functional hydrogen-bonding map of the minor groove binding tracks of six DNA polymerases. <i>Biochemistry</i> , 2000 , 39, 12979-88	3.2	112
90	Metabolites and tissue distribution of resveratrol in the pig. <i>Molecular Nutrition and Food Research</i> , 2011 , 55, 1154-68	5.9	103
89	Varied Molecular Interactions at the Active Sites of Several DNA Polymerases: Nonpolar Nucleoside Isosteres as Probes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1001-1007	16.4	103
88	Effect of lipophilization of hydroxytyrosol on its antioxidant activity in fish oils and fish oil-in-water emulsions. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 9773-9	5.7	93
87	Surface-active properties of lipophilic antioxidants tyrosol and hydroxytyrosol fatty acid esters: a potential explanation for the nonlinear hypothesis of the antioxidant activity in oil-in-water emulsions. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 8021-6	5.7	87
86	Structure and Base Pairing Properties of a Replicable Nonpolar Isostere for Deoxyadenosine. <i>Journal of Organic Chemistry</i> , 1998 , 63, 9652-9656	4.2	86
85	Simultaneous determination of eight water-soluble vitamins in supplemented foods by liquid chromatography. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 4531-6	5.7	82
84	Synthesis of new phenolic fatty acid esters and their evaluation as lipophilic antioxidants in an oil matrix. <i>Food Chemistry</i> , 2007 , 105, 657-665	8.5	78
83	High-fidelity in vivo replication of DNA base shape mimics without Watson-Crick hydrogen bonds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4469-73	11.5	68
82	Carbohydrate-Carbohydrate Interactions in Biological and Model Systems. <i>Topics in Current Chemistry</i> , 2002 , 45-92		63
81	Preventive oral treatment with resveratrol pro-prodrugs drastically reduce colon inflammation in rodents. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 7365-76	8.3	59

80	Hydroxytyrosol and tyrosol sulfate metabolites protect against the oxidized cholesterol pro-oxidant effect in Caco-2 human enterocyte-like cells. <i>Food and Function</i> , 2016 , 7, 337-46	6.1	48
79	Antioxidant activity of resveratrol in several fish lipid matrices: effect of acylation and glucosylation. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 9778-86	5.7	48
78	A concise synthesis of glucuronide metabolites of urolithin-B, resveratrol, and hydroxytyrosol. <i>Carbohydrate Research</i> , 2009 , 344, 1340-6	2.9	48
77	The gut microbiota ellagic acid-derived metabolite urolithin A and its sulfate conjugate are substrates for the drug efflux transporter breast cancer resistance protein (ABCG2/BCRP). <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 4352-9	5.7	47
76	Efficient lipase-catalyzed synthesis of new lipid antioxidants based on a catechol structure. <i>Tetrahedron</i> , 2005 , 61, 7654-7660	2.4	47
75	Importance of terminal base pair hydrogen-bonding in 3Rend proofreading by the Klenow fragment of DNA polymerase I. <i>Biochemistry</i> , 2000 , 39, 2626-32	3.2	46
74	A highly effective nonpolar isostere of deoxyguanosine: synthesis, structure, stacking, and base pairing. <i>Journal of Organic Chemistry</i> , 2002 , 67, 5869-75	4.2	45
73	Significance of nucleobase shape complementarity and hydrogen bonding in the formation and stability of the closed polymerase-DNA complex. <i>Biochemistry</i> , 2001 , 40, 3215-21	3.2	45
72	Highly polar carbohydrates stack onto DNA duplexes via CH/π interactions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1909-16	16.4	44
71	Alkylated resveratrol prodrugs and metabolites as potential therapeutics for neurodegenerative diseases. <i>European Journal of Medicinal Chemistry</i> , 2018 , 146, 123-138	6.8	43
70	Carbohydrate-Arene Interactions Direct Conformational Equilibrium of a Flexible Glycophane in Water. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 654-657	16.4	39
69	Carbohydrate-Carbohydrate Interactions in Water with Glycophanes as Model Systems. <i>Journal of Organic Chemistry</i> , 1998 , 63, 9212-9222	4.2	38
68	Effects of long-term consumption of low doses of resveratrol on diet-induced mild hypercholesterolemia in pigs: a transcriptomic approach to disease prevention. <i>Journal of Nutritional Biochemistry</i> , 2012 , 23, 829-37	6.3	37
67	Enzymatic production of fully deacetylated chitoooligosaccharides and their neuroprotective and anti-inflammatory properties. <i>Biocatalysis and Biotransformation</i> , 2018 , 36, 57-67	2.5	36
66	Properties of triple helices formed by parallel-stranded hairpins containing 8-aminopurines. <i>Nucleic Acids Research</i> , 2002 , 30, 2609-19	20.1	36
65	Synthesis, Binding Properties, and Differences in Cell Uptake of G-Quadruplex Ligands Based on Carbohydrate Naphthalene Diimide Conjugates. <i>Chemistry - A European Journal</i> , 2017 , 23, 2157-2164	4.8	35
64	G-Quadruplex Identification in the Genome of Protozoan Parasites Points to Naphthalene Diimide Ligands as New Antiparasitic Agents. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 1231-1240	8.3	33
63	A Photoresponsive Stiff-Stilbene Ligand Fuels the Reversible Unfolding of G-Quadruplex DNA. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4334-4338	16.4	32

62	Experimental measurement of carbohydrate-aromatic stacking in water by using a dangling-ended DNA model system. <i>Chemistry - A European Journal</i> , 2008 , 14, 7828-35	4.8	32
61	Binding and Beyond: What Else Can G-Quadruplex Ligands Do?. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 4995-5017	3.2	30
60	Divalent Naphthalene Diimide Ligands Display High Selectivity for the Human Telomeric G-quadruplex in K Buffer. <i>Chemistry - A European Journal</i> , 2017 , 23, 6953-6958	4.8	29
59	Tyrosol and its metabolites as antioxidative and anti-inflammatory molecules in human endothelial cells. <i>Food and Function</i> , 2017 , 8, 2905-2914	6.1	28
58	Skin delivery of antioxidant surfactants based on gallic acid and hydroxytyrosol. <i>Journal of Pharmacy and Pharmacology</i> , 2015 , 67, 900-8	4.8	28
57	High-level expression and characterization of <i>Galactomyces geotrichum</i> (BT107) lipase I in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2006 , 49, 256-64	2	28
56	Resveratrol and some glucosyl, glucosylacyl, and glucuronide derivatives reduce <i>Escherichia coli</i> O157:H7, <i>Salmonella Typhimurium</i> , and <i>Listeria monocytogenes</i> Scott A adhesion to colonic epithelial cell lines. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 7367-74	5.7	26
55	Synthesis and characterization of phenolic antioxidants with surfactant properties: glucosyl- and glucuronosyl alkyl gallates. <i>Tetrahedron</i> , 2011 , 67, 7268-7279	2.4	26
54	Synthesis, cell-surface binding, and cellular uptake of fluorescently labeled glucose-DNA conjugates with different carbohydrate presentation. <i>Bioconjugate Chemistry</i> , 2010 , 21, 1280-7	6.3	26
53	Synthesis and in vitro inhibition properties of siRNA conjugates carrying glucose and galactose with different presentations. <i>Molecular Diversity</i> , 2011 , 15, 751-7	3.1	25
52	Complementary regioselective esterification of non-reducing oligosaccharides catalyzed by different hydrolases. <i>Tetrahedron</i> , 2006 , 62, 878-886	2.4	25
51	Hydroxytyrosol glucuronides protect renal tubular epithelial cells against H ₂ O ₂ induced oxidative damage. <i>Chemico-Biological Interactions</i> , 2011 , 193, 232-9	5	24
50	Antioxidant activity of alkyl gallates and glycosyl alkyl gallates in fish oil in water emulsions: relevance of their surface active properties and of the type of emulsifier. <i>Food Chemistry</i> , 2015 , 183, 190-6	8.5	23
49	Cytotoxic, Antiangiogenic and Antitelomerase Activity of Glucosyl- and Acyl- Resveratrol Prodrugs and Resveratrol Sulfate Metabolites. <i>ChemBioChem</i> , 2016 , 17, 1343-8	3.8	21
48	Determination of regioisomeric distribution in carbohydrate fatty acid monoesters by LC-ESI-MS. <i>Carbohydrate Research</i> , 2007 , 342, 236-42	2.9	20
47	Regioselectivity in acylation of oligosaccharides catalyzed by the metalloprotease thermolysin. <i>Tetrahedron</i> , 2006 , 62, 2361-2369	2.4	20
46	Stiff-Stilbene Ligands Target G-Quadruplex DNA and Exhibit Selective Anticancer and Antiparasitic Activity. <i>Chemistry - A European Journal</i> , 2020 , 26, 6224-6233	4.8	19
45	Effect of metabolites of hydroxytyrosol on protection against oxidative stress and inflammation in human endothelial cells. <i>Journal of Functional Foods</i> , 2017 , 29, 238-247	5.1	18

44	Cardiovascular benefits of tyrosol and its endogenous conversion into hydroxytyrosol in humans. A randomized, controlled trial. <i>Free Radical Biology and Medicine</i> , 2019 , 143, 471-481	7.8	18
43	Carbohydrate-DNA interactions at G-quadruplexes: folding and stability changes by attaching sugars at the 5' end. <i>Chemistry - A European Journal</i> , 2013 , 19, 1920-7	4.8	18
42	Enzymatic Synthesis of a Novel Neuroprotective Hydroxytyrosyl Glycoside. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 10526-10533	5.7	18
41	Non-reducing trisaccharide fatty acid monoesters: novel detergents in membrane biochemistry. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 717-26	3.8	18
40	Improved sample treatment and chromatographic method for the determination of isoflavones in supplemented foods. <i>Food Chemistry</i> , 2010 , 123, 872-877	8.5	18
39	G4-iM Grinder: when size and frequency matter. G-Quadruplex, i-Motif and higher order structure search and analysis tool. <i>NAR Genomics and Bioinformatics</i> , 2020 , 2, lqz005	3.7	18
38	Tyrosol and hydroxytyrosol derivatives as antitrypanosomal and antileishmanial agents. <i>European Journal of Medicinal Chemistry</i> , 2016 , 119, 132-40	6.8	18
37	Carbohydrate-naphthalene diimide conjugates as potential antiparasitic drugs: Synthesis, evaluation and structure-activity studies. <i>European Journal of Medicinal Chemistry</i> , 2019 , 163, 54-66	6.8	17
36	Neuroprotective and Anti-inflammatory Effects of Pterostilbene Metabolites in Human Neuroblastoma SH-SY5Y and RAW 264.7 Macrophage Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 1609-1620	5.7	16
35	Visible-light photoswitching of ligand binding mode suggests G-quadruplex DNA as a target for photopharmacology. <i>Chemical Communications</i> , 2020 , 56, 5186-5189	5.8	15
34	Enzymatic Synthesis of a Novel Pterostilbene β -Glucoside by the Combination of Cyclodextrin Glucanotransferase and Amyloglucosidase. <i>Molecules</i> , 2018 , 23,	4.8	15
33	Effect of β -Glucosylation on the Stability, Antioxidant Properties, Toxicity, and Neuroprotective Activity of (-)-Epigallocatechin Gallate. <i>Frontiers in Nutrition</i> , 2019 , 6, 30	6.2	14
32	Effects of sugar functional groups, hydrophobicity, and fluorination on carbohydrate-DNA stacking interactions in water. <i>Journal of Organic Chemistry</i> , 2014 , 79, 2419-29	4.2	14
31	One- and two-step enzymatic synthesis of polymerizable vinyladipoyl mono- and diesters of non-reducing trisaccharides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007 , 48, 8-15		14
30	Parallel-stranded hairpins containing 8-aminopurines. Novel efficient probes for triple-helix formation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001 , 11, 1761-3	2.9	14
29	A Photoresponsive Stiff-Stilbene Ligand Fuels the Reversible Unfolding of G-Quadruplex DNA. <i>Angewandte Chemie</i> , 2019 , 131, 4378-4382	3.6	13
28	Synthesis of Oligonucleotides Carrying Anchoring Groups and Their Use in the Preparation of Oligonucleotide-Gold Conjugates. <i>Helvetica Chimica Acta</i> , 2002 , 85, 2594-2607	2	12
27	Altered paracellular permeability in intestinal cell monolayer challenged with lipopolysaccharide: Modulatory effects of pterostilbene metabolites. <i>Food and Chemical Toxicology</i> , 2020 , 145, 111729	4.7	12

26	Synthesis, RNAi activity and nuclease-resistant properties of apolar carbohydrates siRNA conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 4048-51	2.9	11
25	Apolar carbohydrates as DNA capping agents. <i>Chemical Communications</i> , 2012 , 48, 2991-3	5.8	11
24	Hemolytic activity and solubilizing capacity of raffinose and melezitose fatty acid monoesters prepared by enzymatic synthesis. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 92, 139-45	5.7	9
23	The effect of l-thymidine, acyclic thymine and 8-bromoguanine on the stability of model G-quadruplex structures. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1205-1212	4	8
22	Alteration of substrate specificity of <i>Galactomyces geotrichum</i> BT107 lipase I on eicosapentaenoic acid-rich triglycerides. <i>Biocatalysis and Biotransformation</i> , 2008 , 26, 296-305	2.5	8
21	Kinetics and binding of the thymine-DNA mismatch glycosylase, Mig-Mth, with mismatch-containing DNA substrates. <i>DNA Repair</i> , 2003 , 2, 107-20	4.3	8
20	Two interconverting glycophanes from maltose. <i>Tetrahedron Letters</i> , 1996 , 37, 5011-5014	2	8
19	Synthesis and Biophysical Investigations of Oligonucleotides Containing Galactose-Modified DNA, LNA, and 2RAmino-LNA Monomers. <i>Journal of Organic Chemistry</i> , 2016 , 81, 10845-10856	4.2	7
18	Improved sample treatment for the determination of fructooligosaccharides in milk related products by liquid chromatography with electrochemical and refractive index detection. <i>Talanta</i> , 2015 , 144, 883-9	6.2	6
17	Structure-Activity Relationship of Phenolic Antioxidants and Olive Components 2010 , 905-914		6
16	The Resveratrol Prodrug JC19 Delays Retinal Degeneration in rd10 Mice. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1185, 457-462	3.6	6
15	Symmetric and dissymmetric carbohydrate-phenyl ditriazole derivatives as DNA G-quadruplex ligands: Synthesis, biophysical studies and antiproliferative activity. <i>Bioorganic Chemistry</i> , 2020 , 99, 103786	5.1	6
14	Glucose-Nucleobase Pseudo Base Pairs: Biomolecular Interactions within DNA. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8643-7	16.4	6
13	Enhanced sampling molecular dynamics simulations correctly predict the diverse activities of a series of stiff-stilbene G-quadruplex DNA ligands. <i>Chemical Science</i> , 2020 , 12, 1415-1426	9.4	6
12	Glucose conjugation of anti-HIV-1 oligonucleotides containing unmethylated CpG motifs reduces their immunostimulatory activity. <i>ChemBioChem</i> , 2015 , 16, 584-91	3.8	4
11	Sensitive gas chromatographic-mass spectrometric (GC-MS) method for the determination of bisphenol A in rice-prepared dishes. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2009 , 26, 1209-1216	3.2	4
10	Data on the endogenous conversion of tyrosol into hydroxytyrosol in humans. <i>Data in Brief</i> , 2019 , 27, 104787	1.2	4
9	Silyl resveratrol derivatives as potential therapeutic agents for neurodegenerative and neurological diseases. <i>European Journal of Medicinal Chemistry</i> , 2021 , 223, 113655	6.8	4

8	Positive-ion ESI mass spectrometry of regioisomeric nonreducing oligosaccharide fatty acid monoesters: in-source fragmentation of sodium adducts. <i>Journal of Mass Spectrometry</i> , 2008 , 43, 633-8	2.2	3
7	Properties of triple helices formed by oligonucleotides containing 8-aminopurines. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003 , 22, 645-8	1.4	2
6	Imide Condensation as a Strategy for the Synthesis of Core-Diversified G-Quadruplex Ligands with Anticancer and Antiparasitic Activity*. <i>Chemistry - A European Journal</i> , 2021 , 27, 7712-7721	4.8	2
5	Glucose-Nucleobase Pseudo Base Pairs: Biomolecular Interactions within DNA. <i>Angewandte Chemie</i> , 2016 , 128, 8785-8789	3.6	2
4	Synthesis of Carbohydrate-Oligonucleotide Conjugates and Their Applications 2018 , 259-289		1
3	Thiosugar naphthalene diimide conjugates: G-quadruplex ligands with antiparasitic and anticancer activity.. <i>European Journal of Medicinal Chemistry</i> , 2022 , 232, 114183	6.8	0
2	Glucose-nucleobase pairs within DNA: impact of hydrophobicity, alternative linking unit and DNA polymerase nucleotide insertion studies. <i>Chemical Science</i> , 2018 , 9, 3544-3554	9.4	
1	Challenges and Opportunities for Oligonucleotide-Based Therapeutics by Antisense and RNA Interference Mechanisms 2014 , 227-242		