

# Carla Cruz

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

736  
citations

16  
h-index

22  
g-index

79  
ext. papers

1,030  
ext. citations

4.7  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
71	Screening of Scaffolds for the Design of G-Quadruplex Ligands. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2170	2.6	0
70	Targeting a G-quadruplex from let-7e pre-miRNA with small molecules and nucleolin.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2022</b> , 215, 114757	3.5	0
69	Diketopyrrolo[3,4-c]pyrrole derivative as a promising ligand for the stabilization of G-quadruplex DNA structures.. <i>Bioorganic Chemistry</i> , <b>2022</b> , 122, 105703	5.1	0
68	Stabilization of a DNA aptamer by ligand binding.. <i>Biochimie</i> , <b>2022</b> , 200, 8-8	4.6	1
67	Pre-miRNA-149 G-quadruplex as a molecular agent to capture nucleolin.. <i>European Journal of Pharmaceutical Sciences</i> , <b>2021</b> , 169, 106093	5.1	3
66	Ligands as Stabilizers of G-Quadruplexes in Non-Coding RNAs. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3
65	Molecular Beacon Assay Development for Severe Acute Respiratory Syndrome Coronavirus 2 Detection. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
64	Aptamer-based approaches to detect nucleolin in prostate cancer. <i>Talanta</i> , <b>2021</b> , 226, 122037	6.2	7
63	Metal-Based G-Quadruplex Binders for Cancer Theranostics. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	6
62	Targeting nucleolin by RNA G-quadruplex-forming motif. <i>Biochemical Pharmacology</i> , <b>2021</b> , 189, 114418	6	5
61	G-Quadruplex-Based Drug Delivery Systems for Cancer Therapy. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	5
60	New (Iso)quinolinyl-pyridine-2,6-dicarboxamide G-Quadruplex Stabilizers. A Structure-Activity Relationship Study. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	2
59	Recognition of nucleolin through interaction with RNA G-quadruplex. <i>Biochemical Pharmacology</i> , <b>2021</b> , 189, 114208	6	7
58	Nucleolin as a potential biomarker for canine malignant neoplasia. <i>Research in Veterinary Science</i> , <b>2021</b> , 135, 297-303	2.5	1
57	Human Papillomavirus G-Rich Regions as Potential Antiviral Drug Targets. <i>Nucleic Acid Therapeutics</i> , <b>2021</b> , 31, 68-81	4.8	6
56	Locking up the AS1411 Aptamer with a Flanking Duplex: Towards an Improved Nucleolin-Targeting. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	7
55	G-Quadruplexes and Their Ligands: Biophysical Methods to Unravel G-Quadruplex/Ligand Interactions. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	9

54	Nanoaggregate-forming lipid-conjugated AS1411 aptamer as a promising tumor-targeted delivery system of anticancer agents in vitro. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2021</b> , 36, 102429	6	1
53	Aptamer-Functionalized Gold Nanoparticles for Drug Delivery to Gynecological Carcinoma Cells. <i>Cancers</i> , <b>2021</b> , 13,	6.6	6
52	Phthalocyanines for G-quadruplex aptamers binding. <i>Bioorganic Chemistry</i> , <b>2020</b> , 100, 103920	5.1	17
51	Forster resonance energy transfer for studying nucleic acids denaturation: A chemical and biological sciences laboratory experiment. <i>Biochemistry and Molecular Biology Education</i> , <b>2020</b> , 48, 329-338	1.3	2
50	G-quadruplex, Friend or Foe: The Role of the G-quartet in Anticancer Strategies. <i>Trends in Molecular Medicine</i> , <b>2020</b> , 26, 848-861	11.5	80
49	Brain-Targeted Delivery of Pre-miR-29b Using Lactoferrin-Stearic Acid-Modified-Chitosan/Polyethyleneimine Polyplexes. <i>Pharmaceuticals</i> , <b>2020</b> , 13,	5.2	6
48	Biological studies of an ICG-tagged aptamer as drug delivery system for malignant melanoma. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2020</b> , 154, 228-235	5.7	10
47	Ligand screening to pre-miRNA 149 G-quadruplex investigated by molecular dynamics. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 38, 2276-2286	3.6	6
46	Aptamer-based Targeted Delivery of a G-quadruplex Ligand in Cervical Cancer Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 7945	4.9	40
45	Plasmid production and purification: An integrated experiment-based biochemistry and biotechnology laboratory course. <i>Biochemistry and Molecular Biology Education</i> , <b>2019</b> , 47, 638-643	1.3	
44	RNA G-quadruplex as supramolecular carrier for cancer-selective delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2019</b> , 142, 473-479	5.7	20
43	AS1411 derivatives as carriers of G-quadruplex ligands for cervical cancer cells. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 568, 118511	6.5	18
42	Aptamer-guided acridine derivatives for cervical cancer. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 2992-3002	3.9	21
41	Multicharged Phthalocyanines as Selective Ligands for G-Quadruplex DNA Structures. <i>Molecules</i> , <b>2019</b> , 24,	4.8	21
40	Synthesis and Biological Evaluation of New Functionalized Nitroindazolylacetonitrile Derivatives. <i>ChemistrySelect</i> , <b>2019</b> , 4, 14335-14342	1.8	8
39	Development of a bioreactor system for cytotoxic evaluation of pharmacological compounds in living cells using NMR spectroscopy. <i>Journal of Pharmacological and Toxicological Methods</i> , <b>2019</b> , 95, 70-78	1.7	8
38	Phenanthroline polyazamacrocycles as G-quadruplex DNA binders. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 2776-2786	3.9	18
37	Influenza DNA vaccine purification using pHEMA cryogel support. <i>Separation and Purification Technology</i> , <b>2018</b> , 206, 192-198	8.3	7

36	Fluorescent light-up acridine orange derivatives bind and stabilize KRAS-22RT G-quadruplex. <i>Biochimie</i> , <b>2018</b> , 144, 144-152	4.6	30
35	Study of the interaction between indole-based compounds and biologically relevant G-quadruplexes. <i>Biochimie</i> , <b>2017</b> , 135, 186-195	4.6	14
34	Highly selective capture of minicircle DNA biopharmaceuticals by a novel zinc-histidine peptide conjugate. <i>Separation and Purification Technology</i> , <b>2017</b> , 174, 417-424	8.3	4
33	Circular Dichroism of G-Quadruplex: a Laboratory Experiment for the Study of Topology and Ligand Binding. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 1547-1551	2.4	29
32	Targeting of Cellular Organelles by Fluorescent Plasmid DNA Nanoparticles. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2928-2936	6.9	6
31	Naphthalene amine support for G-quadruplex isolation. <i>Analyst, The</i> , <b>2017</b> , 142, 2982-2994	5	3
30	Plasmid purification by using a new naphthalene tripodal support. <i>Separation and Purification Technology</i> , <b>2017</b> , 188, 81-89	8.3	5
29	Phenanthroline-bis-oxazole ligands for binding and stabilization of G-quadruplexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 1281-1292	4	16
28	Stabilization of novel immunoglobulin switch regions G-quadruplexes by naphthalene and quinoline-based ligands. <i>Tetrahedron</i> , <b>2016</b> , 72, 1229-1237	2.4	8
27	Analysis of pre-miR-29b binding conditions to amino acids by using a surface plasmon resonance biosensor. <i>Analytical Methods</i> , <b>2016</b> , 8, 205-213	3.2	3
26	Purification of supercoiled G-quadruplex pDNA for in vitro transcription. <i>Separation and Purification Technology</i> , <b>2016</b> , 163, 59-71	8.3	6
25	L-tryptophan and dipeptide derivatives for supercoiled plasmid DNA purification. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 87, 385-96	7.9	5
24	Screening of L-histidine-based ligands to modify monolithic supports and selectively purify the supercoiled plasmid DNA isoform. <i>Journal of Molecular Recognition</i> , <b>2015</b> , 28, 349-58	2.6	4
23	Affinity analysis and application of dipeptides derived from L-tyrosine in plasmid purification. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2015</b> , 1006, 47-58	3.2	6
22	Cell proliferation effects of calix[4]arene derivatives. <i>Tetrahedron</i> , <b>2015</b> , 71, 7593-7599	2.4	13
21	Quantitative analysis of the interaction between L-methionine derivative and oligonucleotides. <i>Journal of Biochemistry</i> , <b>2015</b> , 157, 261-70	3.1	
20	NMR screening of new carbocyanine dyes as ligands for affinity chromatography. <i>Journal of Molecular Recognition</i> , <b>2014</b> , 27, 197-204	2.6	1
19	Molecular recognition of oligonucleotides and plasmid DNA by L-methionine. <i>Journal of Molecular Recognition</i> , <b>2014</b> , 27, 588-96	2.6	3

18	Quantitative analysis of histamine- and agmatine-DNA interactions using surface plasmon resonance. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 70, 131-7	7.9	4
17	Polyazamacrocycles as potential antitumor agents for human prostate cancer cells. <i>Chemical Biology and Drug Design</i> , <b>2013</b> , 81, 517-26	2.9	5
16	Binding analysis between L-histidine immobilized and oligonucleotides by SPR and NMR. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 56, 175-80	7.9	13
15	Sensitive detection of peptide-minicircle DNA interactions by surface plasmon resonance. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2304-11	7.8	10
14	Affinity analysis between immobilized L-arginine and plasmid isoforms provided by surface plasmon resonance. <i>Analytical Methods</i> , <b>2013</b> , 5, 1682	3.2	7
13	An Alkenylresorcinol Derivative from Hakea Sericea Fruits and their Antimicrobial Activity. <i>Natural Product Communications</i> , <b>2013</b> , 8, 1934578X1300801	0.9	3
12	Study of the specific interaction between L-methionine chromatography support and nucleotides. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2012</b> , 909, 1-5	3.2	4
11	Screening nucleotide binding to amino acid-coated supports by surface plasmon resonance and nuclear magnetic resonance. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 983-93	4.4	13
10	Study of specific interaction between nucleotides and dye support by nuclear magnetic resonance. <i>Journal of Molecular Recognition</i> , <b>2011</b> , 24, 975-80	2.6	7
9	Analysis of nucleotides binding to chromatography supports provided by nuclear magnetic resonance spectroscopy. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 3559-64	4.5	7
8	Targeting of mitochondria-endoplasmic reticulum by fluorescent macrocyclic compounds. <i>PLoS ONE</i> , <b>2011</b> , 6, e27078	3.7	13
7	Amino acids-nucleotides biomolecular recognition: from biological occurrence to affinity chromatography. <i>Journal of Molecular Recognition</i> , <b>2010</b> , 23, 505-18	2.6	31
6	Design of protonated polyazamacrocycles based on phenanthroline motifs for selective uptake of aromatic carboxylate anions and herbicides. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 3277-89	4.8	21
5	Evaluation of the binding ability of a novel dioxatetraazamacrocyclic receptor that contains two phenanthroline units: selective uptake of carboxylate anions. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 4023-34	4.2	24
4	In vitro effect of free and complexed indium(III) against Mycobacterium tuberculosis. <i>FEMS Microbiology Letters</i> , <b>2005</b> , 251, 119-24	2.9	22
3	Supramolecular aggregates between carboxylate anions and an octaaza macrocyclic receptor. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 2911-8	3.9	8
2	Dinuclear copper and zinc complexes of a hexaazamacrocyclic containing p-xylyl spacers and bridging anions: theoretical and spectroscopic studies. <i>Dalton Transactions</i> , <b>2003</b> , 4261-4270	4.3	25
1	Metal complexes of a dipyridine octaazamacrocyclic: stability constants, structural and modelling studies. <i>Dalton Transactions</i> , <b>2003</b> , 3172-3183	4.3	9

