

Carla Cruz

List of Publications by Year in descending order

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76
papers

1,310
citations

393982

19
h-index

433756

31
g-index

79
all docs

79
docs citations

79
times ranked

1333
citing authors

#	ARTICLE	IF	CITATIONS
1	G-quadruplex, Friend or Foe: The Role of the G-quartet in Anticancer Strategies. Trends in Molecular Medicine, 2020, 26, 848-861.	3.5	181
2	Aptamer-based Targeted Delivery of a G-quadruplex Ligand in Cervical Cancer Cells. Scientific Reports, 2019, 9, 7945.	1.6	73
3	G-Quadruplexes and Their Ligands: Biophysical Methods to Unravel G-Quadruplex/Ligand Interactions. Pharmaceuticals, 2021, 14, 769.	1.7	55
4	Circular Dichroism of G-Quadruplex: a Laboratory Experiment for the Study of Topology and Ligand Binding. Journal of Chemical Education, 2017, 94, 1547-1551.	1.1	54
5	Fluorescent light-up acridine orange derivatives bind and stabilize KRAS-22RT G-quadruplex. Biochimie, 2018, 144, 144-152.	1.3	41
6	Multicharged Phthalocyanines as Selective Ligands for G-Quadruplex DNA Structures. Molecules, 2019, 24, 733.	1.7	40
7	Phthalocyanines for G-quadruplex aptamers binding. Bioorganic Chemistry, 2020, 100, 103920.	2.0	34
8	Amino acidsâ€™ nucleotides biomolecular recognition: from biological occurrence to affinity chromatography. Journal of Molecular Recognition, 2010, 23, 505-518.	1.1	33
9	Aptamer-guided acridine derivatives for cervical cancer. Organic and Biomolecular Chemistry, 2019, 17, 2992-3002.	1.5	31
10	AS1411 derivatives as carriers of G-quadruplex ligands for cervical cancer cells. International Journal of Pharmaceutics, 2019, 568, 118511.	2.6	29
11	In vitro effect of free and complexed indium(III) against Mycobacterium tuberculosis. FEMS Microbiology Letters, 2005, 251, 119-124.	0.7	28
12	RNA G-quadruplex as supramolecular carrier for cancer-selective delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 142, 473-479.	2.0	28
13	Dinuclear copper and zinc complexes of a hexaazamacrocycle containing p-xylyl spacers and bridging anions: theoretical and spectroscopic studies. Dalton Transactions, 2003, , 4261-4270.	1.6	26
14	Evaluation of the Binding Ability of a Novel Dioxatetraazamacrocyclic Receptor that Contains Two Phenanthroline Units:â€™ Selective Uptake of Carboxylate Anions. Journal of Organic Chemistry, 2007, 72, 4023-4034.	1.7	25
15	Phenanthroline polyazamacrocycles as G-quadruplex DNA binders. Organic and Biomolecular Chemistry, 2018, 16, 2776-2786.	1.5	23
16	Design of Protonated Polyazamacrocycles Based on Phenanthroline Motifs for Selective Uptake of Aromatic Carboxylate Anions and Herbicides. Chemistry - A European Journal, 2009, 15, 3277-3289.	1.7	22
17	Biological studies of an ICG-tagged aptamer as drug delivery system for malignant melanoma. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 154, 228-235.	2.0	22
18	Metal-Based G-Quadruplex Binders for Cancer Theranostics. Pharmaceuticals, 2021, 14, 605.	1.7	22

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19	Phenanthroline-bis-oxazole ligands for binding and stabilization of G-quadruplexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1281-1292.	1.1	21
20	Study of the interaction between indole-based compounds and biologically relevant G-quadruplexes. <i>Biochimie</i> , 2017, 135, 186-195.	1.3	20
21	Recognition of nucleolin through interaction with RNA G-quadruplex. <i>Biochemical Pharmacology</i> , 2021, 189, 114208.	2.0	20
22	Cell proliferation effects of calix[4]arene derivatives. <i>Tetrahedron</i> , 2015, 71, 7593-7599.	1.0	19
23	G-Quadruplex-Based Drug Delivery Systems for Cancer Therapy. <i>Pharmaceuticals</i> , 2021, 14, 671.	1.7	19
24	Targeting nucleolin by RNA G-quadruplex-forming motif. <i>Biochemical Pharmacology</i> , 2021, 189, 114418.	2.0	18
25	Locking up the AS1411 Aptamer with a Flanking Duplex: Towards an Improved Nucleolin-Targeting. <i>Pharmaceuticals</i> , 2021, 14, 121.	1.7	17
26	Aptamer-Functionalized Gold Nanoparticles for Drug Delivery to Gynecological Carcinoma Cells. <i>Cancers</i> , 2021, 13, 4038.	1.7	17
27	Aptamer-based approaches to detect nucleolin in prostate cancer. <i>Talanta</i> , 2021, 226, 122037.	2.9	16
28	Nucleolin: a binding partner of G-quadruplex structures. <i>Trends in Cell Biology</i> , 2022, 32, 561-564.	3.6	16
29	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> , 2019, 95, 70-78.	0.3	15
30	Human Papillomavirus G-Rich Regions as Potential Antiviral Drug Targets. <i>Nucleic Acid Therapeutics</i> , 2021, 31, 68-81.	2.0	15
31	Targeting of Mitochondria-Endoplasmic Reticulum by Fluorescent Macrocyclic Compounds. <i>PLoS ONE</i> , 2011, 6, e27078.	1.1	15
32	Screening nucleotide binding to amino acid-coated supports by surface plasmon resonance and nuclear magnetic resonance. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 983-993.	1.9	14
33	Binding analysis between l-histidine immobilized and oligonucleotides by SPR and NMR. <i>International Journal of Biological Macromolecules</i> , 2013, 56, 175-180.	3.6	14
34	Brain-Targeted Delivery of Pre-miR-29b Using Lactoferrin-Stearic Acid-Modified-Chitosan/Polyethyleneimine Polyplexes. <i>Pharmaceuticals</i> , 2020, 13, 314.	1.7	13
35	Stabilization of novel immunoglobulin switch regions G-quadruplexes by naphthalene and quinoline-based ligands. <i>Tetrahedron</i> , 2016, 72, 1229-1237.	1.0	12
36	Influenza DNA vaccine purification using pHEMA cryogel support. <i>Separation and Purification Technology</i> , 2018, 206, 192-198.	3.9	12

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37	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> , 2021, 36, 102429.	1.7	12
38	Ligands as Stabilizers of G-Quadruplexes in Non-Coding RNAs. <i>Molecules</i> , 2021, 26, 6164.	1.7	12
39	Sensitive Detection of Peptide-Minircle DNA Interactions by Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2013, 85, 2304-2311.	3.2	11
40	Radiolabeled Gold Nanoseeds Decorated with Substance P Peptides: Synthesis, Characterization and In Vitro Evaluation in Glioblastoma Cellular Models. <i>International Journal of Molecular Sciences</i> , 2022, 23, 617.	1.8	11
41	Metal complexes of a dipyridine octaazamacrocycle: stability constants, structural and modelling studies. <i>Dalton Transactions</i> , 2003, , 3172-3183.	1.6	10
42	Ligand screening to pre-miRNA 149 G-quadruplex investigated by molecular dynamics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2276-2286.	2.0	10
43	Stabilization of a DNA aptamer by ligand binding. <i>Biochimie</i> , 2022, 200, 8-18.	1.3	10
44	Supramolecular aggregates between carboxylate anions and an octaaza macrocyclic receptor. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2911-2918.	1.5	8
45	Analysis of nucleotides binding to chromatography supports provided by nuclear magnetic resonance spectroscopy. <i>Journal of Chromatography A</i> , 2011, 1218, 3559-3564.	1.8	8
46	Polyazamacrocycles as Potential Antitumor Agents for Human Prostate Cancer Cells. <i>Chemical Biology and Drug Design</i> , 2013, 81, 517-526.	1.5	8
47	Affinity analysis between immobilized l-arginine and plasmid isoforms provided by surface plasmon resonance. <i>Analytical Methods</i> , 2013, 5, 1682.	1.3	8
48	Synthesis and Biological Evaluation of New Functionalized Nitroindazolylacetonitrile Derivatives. <i>ChemistrySelect</i> , 2019, 4, 14335-14342.	0.7	8
49	Diketopyrrolo[3,4-c]pyrrole derivative as a promising ligand for the stabilization of G-quadruplex DNA structures. <i>Bioorganic Chemistry</i> , 2022, 122, 105703.	2.0	8
50	Study of specific interaction between nucleotides and dye support by nuclear magnetic resonance. <i>Journal of Molecular Recognition</i> , 2011, 24, 975-980.	1.1	7
51	Purification of supercoiled G-quadruplex pDNA for in vitro transcription. <i>Separation and Purification Technology</i> , 2016, 163, 59-71.	3.9	7
52	Targeting of Cellular Organelles by Fluorescent Plasmid DNA Nanoparticles. <i>Biomacromolecules</i> , 2017, 18, 2928-2936.	2.6	7
53	Plasmid purification by using a new naphthalene tripodal support. <i>Separation and Purification Technology</i> , 2017, 188, 81-89.	3.9	7
54	New (Iso)quinolinyl-pyridine-2,6-dicarboxamide G-Quadruplex Stabilizers. A Structure-Activity Relationship Study. <i>Pharmaceuticals</i> , 2021, 14, 669.	1.7	7

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55	Pre-miRNA-149 G-quadruplex as a molecular agent to capture nucleolin. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 169, 106093.	1.9	7
56	Molecular Beacon for Detection miRNA-21 as a Biomarker of Lung Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3330.	1.8	7
57	Targeting a G-quadruplex from let-7e pre-miRNA with small molecules and nucleolin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 215, 114757.	1.4	7
58	An Alkenylresorcinol Derivative from <i>Hakea Sericea</i> Fruits and their Antimicrobial Activity. <i>Natural Product Communications</i> , 2013, 8, 1934578X1300801.	0.2	6
59	Screening of histidine-based ligands to modify monolithic supports and selectively purify the supercoiled plasmid DNA isoform. <i>Journal of Molecular Recognition</i> , 2015, 28, 349-358.	1.1	6
60	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> , 2015, 1006, 47-58.	1.2	6
61	Molecular Beacon Assay Development for Severe Acute Respiratory Syndrome Coronavirus 2 Detection. <i>Sensors</i> , 2021, 21, 7015.	2.1	6
62	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> , 2012, 909, 1-5.	1.2	5
63	Quantitative analysis of histamine- and agmatine-DNA interactions using surface plasmon resonance. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 131-137.	3.6	5
64	l-tryptophan and dipeptide derivatives for supercoiled plasmid DNA purification. <i>International Journal of Biological Macromolecules</i> , 2016, 87, 385-396.	3.6	5
65	Naphthalene amine support for G-quadruplex isolation. <i>Analyst, The</i> , 2017, 142, 2982-2994.	1.7	5
66	Nucleolin as a potential biomarker for canine malignant neoplasia. <i>Research in Veterinary Science</i> , 2021, 135, 297-303.	0.9	5
67	Highly selective capture of minicircle DNA biopharmaceuticals by a novel zinc-histidine peptide conjugate. <i>Separation and Purification Technology</i> , 2017, 174, 417-424.	3.9	4
68	Forster resonance energy transfer for studying nucleic acids denaturation: A chemical and biological sciences laboratory experiment. <i>Biochemistry and Molecular Biology Education</i> , 2020, 48, 329-336.	0.5	4
69	Molecular recognition of oligonucleotides and plasmid DNA by l-methionine. <i>Journal of Molecular Recognition</i> , 2014, 27, 588-596.	1.1	3
70	Analysis of pre-miR-29b binding conditions to amino acids by using a surface plasmon resonance biosensor. <i>Analytical Methods</i> , 2016, 8, 205-213.	1.3	3
71	Screening of Scaffolds for the Design of G-Quadruplex Ligands. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2170.	1.3	2
72	NMR screening of new carbocyanine dyes as ligands for affinity chromatography. <i>Journal of Molecular Recognition</i> , 2014, 27, 197-204.	1.1	1

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73	Plasmid production and purification: An integrated experimental-based biochemistry and biotechnology laboratory course. <i>Biochemistry and Molecular Biology Education</i> , 2019, 47, 638-643.	0.5	1
74	Drug Formulations for Localized Treatment of Human Papillomavirus-Induced Lesions. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 2230-2238.	1.6	1
75	Screening of L-histidine based ligands to purify the supercoiled plasmid DNA isoform. , 2015, , .		0
76	Quantitative analysis of the interaction between L-methionine derivative and oligonucleotides. <i>Journal of Biochemistry</i> , 2015, 157, 261-270.	0.9	0