FrÃ©dÃ©ric Rosu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8940383/publications.pdf

Version: 2024-02-01

76 papers	4,542 citations	101384 36 h-index	106150 65 g-index
81 all docs	81 docs citations	81 times ranked	4159 citing authors

#	Article	IF	Citations
1	Mass Spectrometry of Nucleic Acid Noncovalent Complexes. Chemical Reviews, 2022, 122, 7720-7839.	23.0	40
2	Thiosugar naphthalene diimide conjugates: G-quadruplex ligands with antiparasitic and anticancer activity. European Journal of Medicinal Chemistry, 2022, 232, 114183.	2.6	10
3	Largeâ€Amplitude Conformational Changes in Selfâ€Assembled Multiâ€Stranded Aromatic Sheets. Angewandte Chemie - International Edition, 2021, 60, 2574-2577.	7.2	13
4	UmfangreicheKonformationsÃnderungen in selbstassemblierten mehrstrÃngigen aromatischen FaltblÃttern. Angewandte Chemie, 2021, 133, 2605-2609.	1.6	3
5	Crystal structures capture multiple stoichiometric states of an aqueous self-assembling oligourea foldamer. Chemical Communications, 2021, 57, 9514-9517.	2.2	6
6	Unprecedented hour-long residence time of a cation in a left-handed G-quadruplex. Chemical Science, 2021, 12, 7151-7157.	3.7	4
7	Design, synthesis, and antiproliferative effect of 2,9â€bis[4â€(pyridinylalkylaminomethyl)phenyl]â€1,10â€phenanthroline derivatives on human leukemic cells by targeting Gâ€quadruplex. Archiv Der Pharmazie, 2021, 354, e2000450.	2.1	7
8	Compaction of RNA Hairpins and Their Kissing Complexes in Native Electrospray Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 2035-2043.	1.2	4
9	Mass-resolved electronic circular dichroism ion spectroscopy. Science, 2020, 368, 1465-1468.	6.0	46
10	Collision Cross Sections of Phosphoric Acid Cluster Anions in Helium Measured by Drift Tube Ion Mobility Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 969-981.	1.2	5
11	Symmetric and dissymmetric carbohydrate-phenyl ditriazole derivatives as DNA G-quadruplex ligands: Synthesis, biophysical studies and antiproliferative activity. Bioorganic Chemistry, 2020, 99, 103786.	2.0	11
12	Electronic spectroscopy of isolated DNA polyanions. Faraday Discussions, 2019, 217, 361-382.	1.6	17
13	Recommendations for reporting ion mobility Mass Spectrometry measurements. Mass Spectrometry Reviews, 2019, 38, 291-320.	2.8	315
14	Probing ligand and cation binding sites in G-quadruplex nucleic acids by mass spectrometry and electron photodetachment dissociation sequencing. Analyst, The, 2019, 144, 3518-3524.	1.7	14
15	Design and Structure Determination of a Composite Zinc Finger Containing a Nonpeptide Foldamer Helical Domain. Journal of the American Chemical Society, 2019, 141, 2516-2525.	6.6	24
16	Influence of the metals and ligands in dinuclear complexes on phosphopeptide sequencing by electron-transfer dissociation tandem mass spectrometry. Physical Chemistry Chemical Physics, 2018, 20, 26597-26607.	1.3	3
17	Parallel Guanine Duplex and Cytosine Duplex DNA with Uninterrupted Spines of Ag^I-Mediated Base Pairs. Journal of Physical Chemistry Letters, 2018, 9, 6605-6610.	2.1	29
18	Thermal Denaturation of DNA G-Quadruplexes and Their Complexes with Ligands: Thermodynamic Analysis of the Multiple States Revealed by Mass Spectrometry. Journal of the American Chemical Society, 2018, 140, 12553-12565.	6.6	78

#	Article	IF	Citations
19	Optimizing Native Ion Mobility Q-TOF in Helium and Nitrogen for Very Fragile Noncovalent Structures. Journal of the American Society for Mass Spectrometry, 2018, 29, 2189-2198.	1.2	50
20	Compaction of Duplex Nucleic Acids upon Native Electrospray Mass Spectrometry. ACS Central Science, 2017, 3, 454-461.	5.3	81
21	Unexpected Position-Dependent Effects of Ribose G-Quartets in G-Quadruplexes. Journal of the American Chemical Society, 2017, 139, 7768-7779.	6.6	30
22	Translation of rod-like template sequences into homochiral assemblies of stacked helical oligomers. Nature Nanotechnology, 2017, 12, 447-452.	15.6	62
23	Drift Tube Ion Mobility: How to Reconstruct Collision Cross Section Distributions from Arrival Time Distributions?. Analytical Chemistry, 2017, 89, 12674-12681.	3.2	56
24	Specific Stabilization of c-MYC and c-KIT G-Quadruplex DNA Structures by Indolylmethyleneindanone Scaffolds. Biochemistry, 2016, 55, 3571-3585.	1.2	59
25	Anatomy of an Oligourea Six-Helix Bundle. Journal of the American Chemical Society, 2016, 138, 10522-10530.	6.6	31
26	Linking molecular models with ion mobility experiments. Illustration with a rigid nucleic acid structure. Journal of Mass Spectrometry, 2015, 50, ii-ii.	0.7	0
27	Linking molecular models with ion mobility experiments. Illustration with a rigid nucleic acid structure. Journal of Mass Spectrometry, 2015, 50, 711-726.	0.7	69
28	Shaping quaternary assemblies of water-soluble non-peptide helical foldamers by sequence manipulation. Nature Chemistry, 2015, 7, 871-878.	6.6	115
29	Dissociation Pathways of Benzylpyridinium â€œThermometerâ€• Ions Depend on the Activation Regime: An IRMPD Spectroscopy Study. Journal of Physical Chemistry Letters, 2014, 5, 3787-3791.	2.1	22
30	Assembly of Palladium(II) and Platinum(II) Metalloâ€Rectangles with a Guanosineâ€Substituted Terpyridine and Study of Their Interactions with Quadruplex DNA. Chemistry - A European Journal, 2014, 20, 4772-4779.	1.7	83
31	Self-Association of Aromatic Oligoamide Foldamers into Double Helices in Water. Organic Letters, 2014, 16, 4992-4995.	2.4	41
32	Assembly of chemically modified G-rich sequences into tetramolecular DNA G-quadruplexes and higher order structures. Methods, 2014, 67, 159-168.	1.9	19
33	Gas-Phase Spectroscopy of Nucleic Acids. Physical Chemistry in Action, 2014, , 103-130.	0.1	4
34	A â€œsugar-deficientâ€•G-quadruplex: incorporation of aTNA in G4 structures. Chemical Science, 2013, 4, 3693.	3.7	15
35	The Proline-Rich Motif of the proDer p 3 Allergen Propeptide Is Crucial for Protease-Protease Interaction. PLoS ONE, 2013, 8, e68014.	1.1	4
36	Mercuryâ€“thymine interaction with a chair type G-quadruplex architecture. Chemical Communications, 2012, 48, 11464.	2.2	28

#	Article	IF	Citations
37	Triâ€Gâ€Quadruplex: Controlled Assembly of a Gâ€Quadruplex Structure from Three Gâ€Rich Strands. Angewandte Chemie - International Edition, 2012, 51, 11002-11005.	7.2	65
38	d(TGnT) DNA sequences do not necessarily form tetramolecular G-quadruplexes. Chemical Communications, 2012, 48, 8386.	2.2	19
39	UV Spectroscopy of DNA Duplex and Quadruplex Structures in the Gas Phase. Journal of Physical Chemistry A, 2012, 116, 5383-5391.	1.1	41
40	Tridentate Nâ€Donor Palladium(II) Complexes as Efficient Coordinating Quadruplex DNA Binders. Chemistry - A European Journal, 2011, 17, 13274-13283.	1.7	63
41	Cation Involvement in Telomestatin Binding to G-Quadruplex DNA. Journal of Nucleic Acids, 2010, 2010, 1-7.	0.8	13
42	Tetramolecular G-quadruplex formation pathways studied by electrospray mass spectrometry. Nucleic Acids Research, 2010, 38, 5217-5225.	6.5	90
43	Electrospray Mass Spectrometry of Telomeric RNA (TERRA) Reveals the Formation of Stable Multimeric G-Quadruplex Structures. Journal of the American Chemical Society, 2010, 132, 9328-9334.	6.6	124
44	Zwitterionic i-motif structures are preserved in DNA negatively charged ions produced by electrospray mass spectrometry. Physical Chemistry Chemical Physics, 2010, 12, 13448.	1.3	34
45	Putative DNA G-quadruplex formation within the promoters of Plasmodium falciparum var genes. BMC Genomics, 2009, 10, 362.	1.2	61
46	A Simple Method to Determine Electrospray Response Factors of Noncovalent Complexes. Analytical Chemistry, 2009, 81, 6708-6715.	3.2	75
47	Cooperative 2:1 Binding of a Bisphenothiazine to Duplex DNA. ChemBioChem, 2008, 9, 849-852.	1.3	5
48	Identification of Trinucleotide Repeat Ligands with a FRET Melting Assay. ChemBioChem, 2008, 9, 1229-1234.	1.3	20
49	Proteome alteration induced by hTERT transfection of human fibroblast cells. Proteome Science, 2008, 6, 12.	0.7	10
50	G-Quadruplex DNA Assemblies: Loop Length, Cation Identity, and Multimer Formation. Journal of the American Chemical Society, 2008, 130, 10208-10216.	6.6	246
51	Electrospray mass spectrometry to study drug-nucleic acids interactions. Biochimie, 2008, 90, 1074-1087.	1.3	142
52	Ligands playing musical chairs with G-quadruplex DNA: A rapid and simple displacement assay for identifying selective G-quadruplex binders. Biochimie, 2008, 90, 1207-1223.	1.3	245
53	Infrared Signature of DNA G-Quadruplexes in the Gas Phase. Journal of the American Chemical Society, 2008, 130, 1810-1811.	6.6	63
54	Ligand binding to tetra-end-linked (TGGGGT)4 G-quadruplexes: an electrospray mass spectroscopy study. Nucleic Acids Symposium Series, 2008, 52, 165-166.	0.3	7

#	Article	IF	Citations
55	A short C-rich PNA fragment capable to form novel G-quadruplex-PNA complexes. Nucleic Acids Symposium Series, 2008, 52, 167-168.	0.3	4
56	Base-Dependent Electron Photodetachment from Negatively Charged DNA Strands upon 260-nm Laser Irradiation. Journal of the American Chemical Society, 2007, 129, 4706-4713.	6.6	97
57	Guanines are a quartet's best friend: impact of base substitutions on the kinetics and stability of tetramolecular quadruplexes. Nucleic Acids Research, 2007, 35, 3064-3075.	6.5	174
58	Ligand binding mode to duplex and triplex dna assessed by combining electrospray tandem mass spectrometry and molecular modeling. Journal of the American Society for Mass Spectrometry, 2007, 18, 1052-1062.	1.2	36
59	Electron photodetachment dissociation of DNA anions with covalently or noncovalently bound chromophores. Journal of the American Society for Mass Spectrometry, 2007, 18, 1990-2000.	1.2	34
60	Electron Photodetachment Dissociation of DNA Polyanions in a Quadrupole Ion Trap Mass Spectrometer. Analytical Chemistry, 2006, 78, 6564-6572.	3.2	105
61	Influence of the matrix on analyte fragmentation in atmospheric pressure MALDI. Journal of the American Society for Mass Spectrometry, 2006, 17, 1005-1013.	1.2	57
62	Positive and negative ion mode ESI-MS and MS/MS for studying drugâ€“DNA complexes. International Journal of Mass Spectrometry, 2006, 253, 156-171.	0.7	94
63	Fast gas-phase hydrogen/deuterium exchange observed for a DNA G-quadruplex. Rapid Communications in Mass Spectrometry, 2005, 19, 201-208.	0.7	31
64	Ascididemin and meridine stabilise G-quadruplexes and inhibit telomerase in vitro. Biochimica Et Biophysica Acta - General Subjects, 2005, 1724, 375-384.	1.1	61
65	Covalent binding of antitumor benzoacronycines to double-stranded DNA induces helix opening and the formation of single-stranded DNA: unique consequences of a novel DNA-bonding mechanism. Molecular Cancer Therapeutics, 2005, 4, 71-80.	1.9	34
66	Influence of response factors on determining equilibrium association constants of non-covalent complexes by electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2003, 38, 491-501.	0.7	138
67	Selective Interaction of Ethidium Derivatives with Quadruplexes:â€‰ An Equilibrium Dialysis and Electrospray Ionization Mass Spectrometry Analysis. Biochemistry, 2003, 42, 10361-10371.	1.2	122
68	Interactions of cryptolepine and neocryptolepine with unusual DNA structures. Biochimie, 2003, 85, 535-547.	1.3	133
69	Telomestatin-induced stabilization of the human telomeric DNA quadruplex monitored by electrospray mass spectrometry. Chemical Communications, 2003, , 2702.	2.2	81
70	Determination of affinity, stoichiometry and sequence selectivity of minor groove binder complexes with double-stranded oligodeoxynucleotides by electrospray ionization mass spectrometry. Nucleic Acids Research, 2002, 30, 82e-82.	6.5	135
71	Tight Binding of the Antitumor Drug Ditercalinium to Quadruplex DNA. ChemBioChem, 2002, 3, 1235-1241.	1.3	80
72	Triplex and quadruplex DNA structures studied by electrospray mass spectrometry. Rapid Communications in Mass Spectrometry, 2002, 16, 1729-1736.	0.7	154

#	Article	IF	Citations
73	Gas phase thermal denaturation of an oligonucleotide duplex and its complexes with minor groove binders. , 2000, 14, 464-467.		72
74	Interaction between antitumor drugs and a double-stranded oligonucleotide studied by electrospray ionization mass spectrometry. , 1999, 34, 1328-1337.		168
75	Interaction between antitumor drugs and a double-stranded oligonucleotide studied by electrospray ionization mass spectrometry. , 0, .		1
76	Lennard-Jones interaction parameters of Mo and W in He and N₂ from collision cross-sections of Lindqvist and Keggin polyoxometalate anions. Physical Chemistry Chemical Physics, 0, , .	1.3	0