

# Nicolas Spinelli

## List of Publications by Year in descending order

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47  
papers

1,007  
citations

394286

19  
h-index

434063

31  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free impedimetric thrombin sensor based on poly(pyrrole-nitrilotriacetic acid)-aptamer film. <i>Biosensors and Bioelectronics</i> , 2013, 41, 90-95.	5.3	74
2	Template-Assembled Synthetic G-Quadruplex (TASQ): A Useful System for Investigating the Interactions of Ligands with Constrained Quadruplex Topologies. <i>Chemistry - A European Journal</i> , 2010, 16, 6106-6114.	1.7	57
3	Glycoclusters on oligonucleotide and PNA scaffolds: synthesis and applications. <i>Chemical Society Reviews</i> , 2013, 42, 4557-4573.	18.7	57
4	Electrogenerated trisbipyridyl Ru(II)-nitrilotriacetic-polypyrene copolymer for the easy fabrication of label-free photoelectrochemical immunosensor and aptasensor: Application to the determination of thrombin and anti-cholera toxin antibody. <i>Biosensors and Bioelectronics</i> , 2013, 42, 556-562.	5.3	57
5	High Affinity Glycodendrimers for the Lectin LecB from <i>Pseudomonas aeruginosa</i> . <i>Bioconjugate Chemistry</i> , 2013, 24, 1598-1611.	1.8	54
6	Chemical Strategies for Oligonucleotide-Conjugates Synthesis. <i>Current Organic Chemistry</i> , 2008, 12, 263-290.	0.9	52
7	Sensor Based on Aptamer Folding to Detect Low-Molecular Weight Analytes. <i>Analytical Chemistry</i> , 2015, 87, 7566-7574.	3.2	47
8	Highly Sensitive Bisphenol-A Electrochemical Aptasensor Based on Poly(Pyrrole-Nitrilotriacetic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	3.2	46
9	A Novel Conformationally Constrained Parallel G Quadruplex. <i>ChemBioChem</i> , 2008, 9, 2588-2591.	1.3	45
10	Oligonucleotide Sequential Bis-Conjugation via Click-Oxime and Click-Huisgen Procedures. <i>Journal of Organic Chemistry</i> , 2010, 75, 3927-3930.	1.7	39
11	Automated synthesis of new ferrocenyl-modified oligonucleotides: study of their properties in solution. <i>Nucleic Acids Research</i> , 2004, 32, 5310-5319.	6.5	38
12	A multi-ligation strategy for the synthesis of heterofunctionalized glycosylated scaffolds. <i>Chemical Communications</i> , 2015, 51, 5436-5439.	2.2	33
13	Macrocyclic Host-Dye Reporter for Sensitive Sandwich-Type Fluorescent Aptamer Sensor. <i>Analytical Chemistry</i> , 2015, 87, 3139-3143.	3.2	32
14	The Use of a Peptidic Scaffold for the Formation of Stable Guanine Tetrads: Control of a H-bonded Pattern in Water. <i>Chemistry - A European Journal</i> , 2011, 17, 5791-5795.	1.7	31
15	Influence of Aptamer Surface Coverage on Small Target Recognition: A SPR and QCM-D Comparative Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13561-13568.	1.5	25
16	Use of Allylic Protecting Groups for the Synthesis of Base-Sensitive Proligonucleotides. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 49-56.	1.2	24
17	Supported synthesis of ferrocene modified oligonucleotides as new electroactive DNA probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 2439-2441.	1.0	22
18	Characterization of PEDOT film functionalized with a series of automated synthesis ferrocenyl-containing oligonucleotides. <i>Tetrahedron</i> , 2005, 61, 3947-3952.	1.0	21

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19	A novel heterobifunctional linker for facile access to bioconjugates. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1413.	1.5	20
20	Synthesis and electropolymerization studies of water-soluble pyrrole-ferrocene derivatives towards biochip device application. <i>Synthetic Metals</i> , 2007, 157, 125-133.	2.1	19
21	Direct Detection of Low-Molecular-Weight Compounds in 2D and 3D Aptasensors by Biolayer Interferometry. <i>ACS Sensors</i> , 2020, 5, 2326-2330.	4.0	19
22	New Solid Support for the Synthesis of 3'-Oligonucleotide Conjugates through Glyoxylic Oxime Bond Formation. <i>Organic Letters</i> , 2007, 9, 219-222.	2.4	18
23	Label-Free Photoelectrochemical Detection of Double-Stranded HIV DNA by Means of a Metallointercalator-Functionalized Electrogenenerated Polymer. <i>Chemistry - A European Journal</i> , 2014, 20, 15555-15560.	1.7	18
24	Construction of anti-parallel G-quadruplexes through sequential templated click. <i>Chemical Communications</i> , 2015, 51, 4850-4853.	2.2	17
25	The first automated synthesis of ferrocene-labelled phosphorothioate DNA probe: A new potential tool for the fabrication of DNA microarrays. <i>Biotechnology Journal</i> , 2006, 1, 95-98.	1.8	16
26	Negative SPR Signals during Low Molecular Weight Analyte Recognition. <i>Analytical Chemistry</i> , 2021, 93, 4134-4140.	3.2	16
27	Click-click chemistry on a peptidic scaffold for easy access to tetrameric DNA structures. <i>Chemical Communications</i> , 2012, 48, 5992.	2.2	12
28	Closer to nature: an ATP-driven bioinspired catalytic oxidation process. <i>Chemical Communications</i> , 2013, 49, 1500.	2.2	12
29	Impact of Conformational Transitions on SPR Signals—Theoretical Treatment and Application in Small Analytes/Aptamer Recognition. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21521-21530.	1.5	12
30	Surface-immobilized DNAzyme-type biocatalysis. <i>Nanoscale</i> , 2014, 6, 2693.	2.8	11
31	A label-free photoelectrochemical cocaine aptasensor based on an electropolymerized ruthenium-intercalator complex. <i>Electrochimica Acta</i> , 2016, 219, 82-87.	2.6	9
32	Synthesis and characterization of oligonucleotide conjugates bearing electroactive labels. <i>Biorganic and Medicinal Chemistry Letters</i> , 2013, 23, 955-958.	1.0	8
33	DIRECT MALDI-TOF MS ANALYSIS OF OLIGONUCLEOTIDES ON SOLID SUPPORT THROUGH A PHOTOLABILE LINKER. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 963-966.	0.4	7
34	Recent progress in the design of G-quadruplex-based electrochemical aptasensors. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100812.	2.5	7
35	Light-Triggered Green Fluorescent Protein Silencing in Human Keratinocytes in Culture Using Antisense Oligonucleotides Coupled to a Photoreactive Ruthenium(II) Complex. <i>ChemPlusChem</i> , 2014, 79, 1597-1604.	1.3	6
36	PRO-OLIGONUCLEOTIDE SYNTHESIS USING ALLYL AND ALLYLOXYCARBONYL PROTECTIONS: DIRECT MALDI-TOF MS ANALYSIS ON SOLID SUPPORT. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 947-950.	0.4	5

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37	Molecular engineering of biomolecules for nanobio-sciences. International Journal of Nanotechnology, 2010, 7, 738.	0.1	5
38	Optimization of GOPS-Based Functionalization Process and Impact of Aptamer Grafting on the Si Nanonet FET Electrical Properties as First Steps towards Thrombin Electrical Detection. Nanomaterials, 2020, 10, 1842.	1.9	4
39	Aldehydic Oligonucleotide: A Key Intermediate for the Preparation of Oligonucleotide Conjugates Through Oxime Bond Formation. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 883-887.	0.4	3
40	Oligonucleotide Conjugates: Rationale, Synthesis, and Applications. , 2012, , 85-120.		3
41	Prefolded Synthetic G-Quartets Display Enhanced Bioinspired Properties. Chemistry - A European Journal, 2016, 22, 1760-1767.	1.7	3
42	The pK <sub>a</sub> value of the proximal water molecule trans to a high-valent Mn <sup>V</sup> porphyrin: towards the control of reactivity by pH. Dalton Transactions, 2017, 46, 12088-12094.	1.6	2
43	Oligonucleotide-Carbohydrate Conjugates. , 2012, , 145-163.		1
44	Efficient conjugation of oligonucleotides through aromatic oxime formation. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 6534-6537.	1.0	0
45	Template Assembled Synthetic G-Quadruplex (TASQ): a new biomolecular system for investigating the interactions of ligands with constrained quadruplex topologies. , 2011, , .		0
46	Template assembled synthetic antiparallel G-quadruplex. , 2014, , .		0
47	Aptasensors for the detection of low mass analytes. , 2014, , .		0