

Sara N Richter

List of Publications by Citations

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107
papers

3,420
citations

35
h-index

54
g-index

110
ext. papers

4,083
ext. citations

8
avg, IF

5.65
L-index

#	Paper	IF	Citations
107	G-quadruplexes and G-quadruplex ligands: targets and tools in antiviral therapy. <i>Nucleic Acids Research</i> , 2018 , 46, 3270-3283	20.1	215
106	Quinone methides tethered to naphthalene diimides as selective G-quadruplex alkylating agents. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13132-41	16.4	120
105	A dynamic G-quadruplex region regulates the HIV-1 long terminal repeat promoter. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 6521-30	8.3	117
104	Binol quinone methides as bisalkylating and DNA cross-linking agents. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13973-9	16.4	101
103	The Herpes Simplex Virus-1 genome contains multiple clusters of repeated G-quadruplex: Implications for the antiviral activity of a G-quadruplex ligand. <i>Antiviral Research</i> , 2015 , 118, 123-31	10.8	88
102	Nucleolin stabilizes G-quadruplex structures folded by the LTR promoter and silences HIV-1 viral transcription. <i>Nucleic Acids Research</i> , 2015 , 43, 8884-97	20.1	88
101	Anti-HIV-1 activity of the G-quadruplex ligand BRACO-19. <i>Journal of Antimicrobial Chemotherapy</i> , 2014 , 69, 3248-58	5.1	87
100	Hybrid ligand-alkylating agents targeting telomeric G-quadruplex structures. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 2798-806	3.9	85
99	Photogeneration and reactivity of naphthoquinone methides as purine selective DNA alkylating agents. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14625-37	16.4	78
98	TAR RNA loop: a scaffold for the assembly of a regulatory switch in HIV replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 7928-33	11.5	77
97	Formation of a unique cluster of G-quadruplex structures in the HIV-1 Nef coding region: implications for antiviral activity. <i>PLoS ONE</i> , 2013 , 8, e73121	3.7	76
96	Naphthalene diimide scaffolds with dual reversible and covalent interaction properties towards G-quadruplex. <i>Biochimie</i> , 2011 , 93, 1328-40	4.6	75
95	Targeting loop adenines in G-quadruplex by a selective oxirane. <i>Chemistry - A European Journal</i> , 2013 , 19, 78-81	4.8	68
94	Synthesis, Binding and Antiviral Properties of Potent Core-Extended Naphthalene Diimides Targeting the HIV-1 Long Terminal Repeat Promoter G-Quadruplexes. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 9639-52	8.3	67
93	Specific HIV-1 TAR RNA loop sequence and functional groups are required for human cyclin T1-Tat-TAR ternary complex formation. <i>Biochemistry</i> , 2002 , 41, 6391-7	3.2	67
92	The frameshift signal of HIV-1 involves a potential intramolecular triplex RNA structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5331-6	11.5	66
91	Inhibition of gene expression in human cells through small molecule-RNA interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 12997-3002	11.5	66

90	G-quadruplex forming sequences in the genome of all known human viruses: A comprehensive guide. <i>PLoS Computational Biology</i> , 2018 , 14, e1006675	5	66
89	BINOL-amino acid conjugates as triggerable carriers of DNA-targeted potent photocytotoxic agents. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 6570-9	8.3	64
88	Water soluble extended naphthalene diimides as pH fluorescent sensors and G-quadruplex ligands. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 3830-40	3.9	61
87	Selective binding of TAR RNA by a Tat-derived beta-peptide. <i>Organic Letters</i> , 2003 , 5, 3563-5	6.2	61
86	Mapping and characterization of G-quadruplexes in Mycobacterium tuberculosis gene promoter regions. <i>Scientific Reports</i> , 2017 , 7, 5743	4.9	56
85	KPC-mediated resistance in Klebsiella pneumoniae in two hospitals in Padua, Italy, June 2009-December 2011: massive spreading of a KPC-3-encoding plasmid and involvement of non-intensive care units. <i>Gut Pathogens</i> , 2012 , 4, 7	5.4	55
84	Visualization of DNA G-quadruplexes in herpes simplex virus 1-infected cells. <i>Nucleic Acids Research</i> , 2016 , 44, 10343-10353	20.1	50
83	Inhibitors of HIV-1 Tat-mediated transactivation. <i>Current Medicinal Chemistry</i> , 2006 , 13, 1305-15	4.3	50
82	Antiviral properties of quinolone-based drugs. <i>Current Drug Targets Infectious Disorders</i> , 2004 , 4, 111-6		50
81	Structure and possible function of a G-quadruplex in the long terminal repeat of the proviral HIV-1 genome. <i>Nucleic Acids Research</i> , 2016 , 44, 6442-51	20.1	49
80	A red-NIR fluorescent dye detecting nuclear DNA G-quadruplexes: in vitro analysis and cell imaging. <i>Chemical Communications</i> , 2017 , 53, 2268-2271	5.8	48
79	The cellular protein nucleolin preferentially binds long-looped G-quadruplex nucleic acids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1371-1381	4	45
78	Major G-Quadruplex Form of HIV-1 LTR Reveals a (3 + 1) Folding Topology Containing a Stem-Loop. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13654-13662	16.4	44
77	Naphthalene Diimides as Multimodal G-Quadruplex-Selective Ligands. <i>Molecules</i> , 2019 , 24,	4.8	41
76	The cellular protein hnRNP A2/B1 enhances HIV-1 transcription by unfolding LTR promoter G-quadruplexes. <i>Scientific Reports</i> , 2017 , 7, 45244	4.9	38
75	A photoreactive G-quadruplex ligand triggered by green light. <i>Chemistry - A European Journal</i> , 2015 , 21, 2330-4	4.8	37
74	Antimicrobial treatment and containment measures for an extremely drug-resistant Klebsiella pneumoniae ST101 isolate carrying pKPN101-IT, a novel fully sequenced bla(KPC-2) plasmid. <i>Journal of Clinical Microbiology</i> , 2012 , 50, 3768-72	9.7	36
73	Inhibition of human immunodeficiency virus type 1 tat-trans-activation-responsive region interaction by an antiviral quinolone derivative. <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 1895-5	5.9	36

72	The G-quadruplex-forming aptamer AS1411 potently inhibits HIV-1 attachment to the host cell. <i>International Journal of Antimicrobial Agents</i> , 2016 , 47, 311-6	14.3	35
71	A Catalytic and Selective Scissoring Molecular Tool for Quadruplex Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14528-14532	16.4	31
70	Viral G-quadruplexes: New frontiers in virus pathogenesis and antiviral therapy. <i>Annual Reports in Medicinal Chemistry</i> , 2020 , 54, 101-131	1.6	29
69	Strategies for inhibiting function of HIV-1 accessory proteins: a necessary route to AIDS therapy?. <i>Current Medicinal Chemistry</i> , 2009 , 16, 267-86	4.3	29
68	In vitro basis for schedule-dependent interaction between gemcitabine and topoisomerase-targeted drugs in the treatment of colorectal cancer. <i>Annals of Oncology</i> , 2006 , 17 Suppl 5, v20-24	10.3	29
67	Comparison of phenotypic methods for the detection of carbapenem non-susceptible Enterobacteriaceae. <i>Gut Pathogens</i> , 2014 , 6, 13	5.4	27
66	Conformation and stability of intramolecular telomeric G-quadruplexes: sequence effects in the loops. <i>PLoS ONE</i> , 2013 , 8, e84113	3.7	27
65	Prevalence of aac(6B)-Ib-cr plasmid-mediated and chromosome-encoded fluoroquinolone resistance in Enterobacteriaceae in Italy. <i>Gut Pathogens</i> , 2011 , 3, 12	5.4	26
64	Transfer of KPC-2 Carbapenemase from Klebsiella pneumoniae to Escherichia coli in a patient: first case in Europe. <i>Journal of Clinical Microbiology</i> , 2011 , 49, 2040-2	9.7	26
63	Identification of G-quadruplex DNA/RNA binders: Structure-based virtual screening and biophysical characterization. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1329-1340	4	25
62	HIV-1 Nucleocapsid Protein Unfolds Stable RNA G-Quadruplexes in the Viral Genome and Is Inhibited by G-Quadruplex Ligands. <i>ACS Infectious Diseases</i> , 2019 , 5, 2127-2135	5.5	25
61	Conserved presence of G-quadruplex forming sequences in the Long Terminal Repeat Promoter of Lentiviruses. <i>Scientific Reports</i> , 2017 , 7, 2018	4.9	25
60	A core extended naphthalene diimide G-quadruplex ligand potently inhibits herpes simplex virus 1 replication. <i>Scientific Reports</i> , 2017 , 7, 2341	4.9	24
59	Assessment of gene promoter G-quadruplex binding and modulation by a naphthalene diimide derivative in tumor cells. <i>International Journal of Oncology</i> , 2015 , 46, 369-80	4.4	24
58	Bipyridyl ligands as photoactivatable mono- and bis-alkylating agents capable of DNA cross-linking. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 233-5	3.9	24
57	The topoisomerase II poison clerocidin alkylates non-paired guanines of DNA: implications for irreversible stimulation of DNA cleavage. <i>Nucleic Acids Research</i> , 2001 , 29, 4224-30	20.1	24
56	Stabilization of Telomere G-Quadruplexes Interferes with Human Herpesvirus 6A Chromosomal Integration. <i>Journal of Virology</i> , 2017 , 91,	6.6	24
55	Characterisation of qnr plasmid-mediated quinolone resistance in Enterobacteriaceae from Italy: association of the qnrB19 allele with the integron element ISCR1 in Escherichia coli. <i>International Journal of Antimicrobial Agents</i> , 2010 , 35, 578-83	14.3	22

54	Promoter G-quadruplexes and transcription factors cooperate to shape the cell type-specific transcriptome. <i>Nature Communications</i> , 2021 , 12, 3885	17.4	22
53	Ultrarapid detection of blaKPC2/3/4/5 from perirectal and nasal swabs by use of real-time PCR. <i>Journal of Clinical Microbiology</i> , 2012 , 50, 1718-20	9.7	21
52	Down-Regulation of the Androgen Receptor by G-Quadruplex Ligands Sensitizes Castration-Resistant Prostate Cancer Cells to Enzalutamide. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 8625-8638	8.3	21
51	Conserved G-Quadruplexes Regulate the Immediate Early Promoters of Human. <i>Molecules</i> , 2019 , 24,	4.8	19
50	A dynamic i-motif with a duplex stem-loop in the long terminal repeat promoter of the HIV-1 proviral genome modulates viral transcription. <i>Nucleic Acids Research</i> , 2019 , 47, 11057-11068	20.1	19
49	Highly Improved Electrospray Ionization-Mass Spectrometry Detection of G-Quadruplex-Folded Oligonucleotides and Their Complexes with Small Molecules. <i>Analytical Chemistry</i> , 2017 , 89, 8632-8637	7.8	19
48	Selective targeting of mutually exclusive DNA G-quadruplexes: HIV-1 LTR as paradigmatic model. <i>Nucleic Acids Research</i> , 2020 , 48, 4627-4642	20.1	18
47	Photodynamic Therapy for -Driven Cancers: Targeting G-Quadruplex RNA Structures with Bifunctional Alkyl-Modified Porphyrins. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 1245-1260	8.3	17
46	Clerocidin alkylates DNA through its epoxide function: evidence for a fine tuned mechanism of action. <i>Nucleic Acids Research</i> , 2003 , 31, 5149-56	20.1	17
45	Targeting of RET oncogene by naphthalene diimide-mediated gene promoter G-quadruplex stabilization exerts anti-tumor activity in oncogene-addicted human medullary thyroid cancer. <i>Oncotarget</i> , 2016 , 7, 49649-49663	3.3	17
44	Stable and Conserved G-Quadruplexes in the Long Terminal Repeat Promoter of Retroviruses. <i>ACS Infectious Diseases</i> , 2019 , 5, 1150-1159	5.5	16
43	Antiviral 6-amino-quinolones: molecular basis for potency and selectivity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 4247-51	2.9	16
42	Serotype epidemiology and multidrug resistance patterns of Salmonella enterica infecting humans in Italy. <i>Gut Pathogens</i> , 2016 , 8, 26	5.4	15
41	Effects of common buffer systems on drug activity: the case of clerocidin. <i>Chemical Research in Toxicology</i> , 2004 , 17, 492-501	4	15
40	DNA-interactive anticancer aza-anthrapyrazoles: biophysical and biochemical studies relevant to the mechanism of action. <i>Molecular Pharmacology</i> , 2001 , 59, 96-103	4.3	15
39	Hot-spot consensus of fluoroquinolone-mediated DNA cleavage by Gram-negative and Gram-positive type II DNA topoisomerases. <i>Nucleic Acids Research</i> , 2007 , 35, 6075-85	20.1	14
38	Synthesis and antiproliferative mechanism of action of pyrrolo[3,2-b:6,7]cyclohepta[1,2-d]pyrimidin-2-amines as singlet oxygen photosensitizers. <i>European Journal of Medicinal Chemistry</i> , 2016 , 123, 447-461	6.8	14
37	Rapid detection of blaVIM-1-37 and blaKPC1/2-12 alleles from clinical samples by multiplex PCR-based assays. <i>International Journal of Antimicrobial Agents</i> , 2013 , 42, 68-71	14.3	13

36	Concerted bis-alkylating reactivity of clerocidin towards unpaired cytosine residues in DNA. <i>Nucleic Acids Research</i> , 2004 , 32, 5658-67	20.1	13
35	A novel 9-aza-anthrapyrazole effective against human prostatic carcinoma xenografts. <i>Oncology</i> , 2001 , 61, 234-42	3.6	12
34	Antiviral Activity of the G-Quadruplex Ligand TMPyP4 against Herpes Simplex Virus-1. <i>Viruses</i> , 2021 , 13,	6.2	12
33	Pyrrolo[3,2-b:6,7]cyclohepta[1,2-b]pyridines with potent photo-antiproliferative activity. <i>European Journal of Medicinal Chemistry</i> , 2017 , 128, 300-318	6.8	11
32	Simocyclinone D8 turns on against Gram-negative bacteria in a clinical setting. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 1202-4	2.9	11
31	Synthesis and photocytotoxic activity of [1,2,3]triazolo[4,5-h][1,6]naphthyridines and [1,3]oxazolo[5,4-h][1,6]naphthyridines. <i>European Journal of Medicinal Chemistry</i> , 2019 , 162, 176-193	6.8	11
30	Biological relevance and therapeutic potential of G-quadruplex structures in the human noncoding transcriptome. <i>Nucleic Acids Research</i> , 2021 , 49, 3617-3633	20.1	10
29	Parallel G-quadruplexes recruit the HSV-1 transcription factor ICP4 to promote viral transcription in herpes virus-infected human cells. <i>Communications Biology</i> , 2021 , 4, 510	6.7	10
28	The Oncogenic Signaling Pathways in -Mutant Melanoma Cells are Modulated by Naphthalene Diimide-Like G-Quadruplex Ligands. <i>Cells</i> , 2019 , 8,	7.9	9
27	Differential targeting of unpaired bases within duplex DNA by the natural compound clerocidin: a valuable tool to dissect DNA secondary structure. <i>PLoS ONE</i> , 2012 , 7, e52994	3.7	9
26	Clerocidin interacts with the cleavage complex of <i>Streptococcus pneumoniae</i> topoisomerase IV to induce selective irreversible DNA damage. <i>Nucleic Acids Research</i> , 2006 , 34, 1982-91	20.1	9
25	Dyads of G-Quadruplex Ligands Triggering DNA Damage Response and Tumour Cell Growth Inhibition at Subnanomolar Concentration. <i>Chemistry - A European Journal</i> , 2019 , 25, 11085-11097	4.8	8
24	Reactivity of clerocidin towards adenine: implications for base-modulated DNA damage. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 976-85	3.9	8
23	G-Quadruplex Targeting in the Fight against Viruses: An Update. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	8
22	Extended Naphthalene Diimides with Donor/Acceptor Hydrogen-Bonding Properties Targeting G-Quadruplex Nucleic Acids. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 4824-4833	3.2	7
21	The MDM2 inducible promoter folds into four-tetrad antiparallel G-quadruplexes targetable to fight malignant liposarcoma. <i>Nucleic Acids Research</i> , 2021 , 49, 847-863	20.1	7
20	Surface Plasmon Resonance kinetic analysis of the interaction between G-quadruplex nucleic acids and an anti-G-quadruplex monoclonal antibody. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 1276-1282	4	6
19	A Fragment-Based Approach for the Development of G-Quadruplex Ligands: Role of the Amidoxime Moiety. <i>Molecules</i> , 2018 , 23,	4.8	5

18	Clerocidin-mediated DNA footprinting discriminates among different G-quadruplex conformations and detects tetraplex folding in a duplex environment. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4660-8	4	5
17	Dynamics of nascent mRNA folding and RNA-protein interactions: an alternative TAR RNA structure is involved in the control of HIV-1 mRNA transcription. <i>Nucleic Acids Research</i> , 2006 , 34, 4278-92	20.1	5
16	Multimeric G-quadruplexes: A review on their biological roles and targeting.. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	5
15	G-Quadruplexes in the Human Immunodeficiency Virus-1 and Herpes Simplex Virus-1: New Targets for Antiviral Activity by Small Molecules. <i>IFMBE Proceedings</i> , 2015 , 207-210	0.2	4
14	Topoisomerase I, II alpha and II beta mRNA expression in peripheral blood mononuclear cells of patients with solid tumor: preliminary results. <i>Annals of Oncology</i> , 2006 , 17 Suppl 5, v25-28	10.3	3
13	Dissecting reactivity of clerocidin toward common buffer systems by means of selected drug analogues. <i>Chemical Research in Toxicology</i> , 2005 , 18, 35-40	4	3
12	Alternative approaches to the discovery and development of telomerase-targeted anticancer drugs. <i>Mini-Reviews in Medicinal Chemistry</i> , 2003 , 3, 37-49	3.2	3
11	G-quadruplex forming sequences in the genome of all known human viruses: a comprehensive guide		3
10	Topoisomerase I involvement in schedule-dependent interaction between 5-fluoro-uracil and irinotecan in the treatment of colorectal cancer. <i>Cancer Chemotherapy and Pharmacology</i> , 2009 , 64, 199-200	3.5	2
9	Impact of opioid use on survival in patients with newly diagnosed stage IV non-hematologic malignancies.. <i>Journal of Clinical Oncology</i> , 2015 , 33, 188-188	2.2	2
8	Selective Recognition of a Single HIV-1 G-Quadruplex by Ultrafast Small-Molecule Screening. <i>Analytical Chemistry</i> , 2021 , 93, 15243-15252	7.8	2
7	Novel monomolecular derivatives of the anti-HIV-1 G-quadruplex-forming HotodaB aptamer containing inversion of polarity sites. <i>European Journal of Medicinal Chemistry</i> , 2020 , 208, 112786	6.8	2
6	G-Quadruplex Visualization in Cells via Antibody and Fluorescence Probe. <i>Methods in Molecular Biology</i> , 2019 , 2035, 383-395	1.4	1
5	Transcription factor recruitment by parallel G-quadruplexes to promote transcription: the case of herpes simplex virus-1 ICP4		1
4	Promoter G-quadruplexes and transcription factors cooperate to shape the cell type-specific transcriptome		1
3	Chromene Derivatives as Selective TERRA G-Quadruplex RNA Binders with Antiproliferative Properties. <i>Pharmaceutics</i> , 2022 , 15, 548	5.2	0
2	The Multiple Effects of Vitamin D against Chronic Diseases: From Reduction of Lipid Peroxidation to Updated Evidence from Clinical Studies. <i>Antioxidants</i> , 2022 , 11, 1090	7.1	0
1	G-Quadruplexes (G4s)1-10		

