

Sara N Richter

List of Publications by Year in descending order

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106
papers

4,710
citations

87723

38
h-index

114278

63
g-index

110
all docs

110
docs citations

110
times ranked

3707
citing authors

#	ARTICLE	IF	CITATIONS
1	G-quadruplexes and G-quadruplex ligands: targets and tools in antiviral therapy. <i>Nucleic Acids Research</i> , 2018, 46, 3270-3283.	6.5	321
2	A Dynamic G-Quadruplex Region Regulates the HIV-1 Long Terminal Repeat Promoter. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6521-6530.	2.9	153
3	Quinone Methides Tethered to Naphthalene Diimides as Selective G-Quadruplex Alkylating Agents. <i>Journal of the American Chemical Society</i> , 2009, 131, 13132-13141.	6.6	140
4	Nucleolin stabilizes G-quadruplex structures folded by the LTR promoter and silences HIV-1 viral transcription. <i>Nucleic Acids Research</i> , 2015, 43, 8884-8897.	6.5	123
5	Binol Quinone Methides as Bisalkylating and DNA Cross-Linking Agents. <i>Journal of the American Chemical Society</i> , 2004, 126, 13973-13979.	6.6	116
6	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, 123-131.	1.9	116
7	Promoter G-quadruplexes and transcription factors cooperate to shape the cell type-specific transcriptome. <i>Nature Communications</i> , 2021, 12, 3885.	5.8	116
8	Anti-HIV-1 activity of the G-quadruplex ligand BRACO-19. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 3248-3258.	1.3	115
9	G-quadruplex forming sequences in the genome of all known human viruses: A comprehensive guide. <i>PLoS Computational Biology</i> , 2018, 14, e1006675.	1.5	106
10	Hybrid ligand-alkylating agents targeting telomeric G-quadruplex structures. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2798.	1.5	94
11	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.	1.1	94
12	Photogeneration and Reactivity of Naphthoquinone Methides as Purine Selective DNA Alkylating Agents. <i>Journal of the American Chemical Society</i> , 2010, 132, 14625-14637.	6.6	91
13	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, 9639-9652.	2.9	87
14	Naphthalene diimide scaffolds with dual reversible and covalent interaction properties towards G-quadruplex. <i>Biochimie</i> , 2011, 93, 1328-1340.	1.3	86
15	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, 7928-7933.	3.3	81
16	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.	6.6	81
17	Targeting Loop Adenines in G-Quadruplex by a Selective Oxirane. <i>Chemistry - A European Journal</i> , 2013, 19, 78-81.	1.7	77
18	Mapping and characterization of G-quadruplexes in Mycobacterium tuberculosis gene promoter regions. <i>Scientific Reports</i> , 2017, 7, 5743.	1.6	77

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19	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, 5331-5336.	3.3	76
20	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, 6442-6451.	6.5	76
21	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, 6391-6397.	1.2	73
22	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, 12997-13002.	3.3	72
23	BINOL-Amino Acid Conjugates as Triggerable Carriers of DNA-Targeted Potent Photocytotoxic Agents. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 6570-6579.	2.9	71
24	The cellular protein nucleolin preferentially binds long-looped G-quadruplex nucleic acids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1371-1381.	1.1	71
25	Water soluble extended naphthalene diimides as pH fluorescent sensors and G-quadruplex ligands. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 3830.	1.5	69
26	Antiviral Properties of Quinolone-based Drugs. <i>Current Drug Targets Infectious Disorders</i> , 2004, 4, 111-116.	2.1	65
27	KPC-mediated resistance in <i>Klebsiella pneumoniae</i> 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.	1.6	65
28	Visualization of DNA G-quadruplexes in herpes simplex virus 1-infected cells. <i>Nucleic Acids Research</i> , 2016, 44, gkw968.	6.5	65
29	Selective Binding of TAR RNA by a Tat-Derived β^2 -Peptide. <i>Organic Letters</i> , 2003, 5, 3563-3565.	2.4	64
30	The cellular protein hnRNP A2/B1 enhances HIV-1 transcription by unfolding LTR promoter G-quadruplexes. <i>Scientific Reports</i> , 2017, 7, 45244.	1.6	64
31	Naphthalene Diimides as Multimodal G-Quadruplex-Selective Ligands. <i>Molecules</i> , 2019, 24, 426.	1.7	63
32	Viral G-quadruplexes: New frontiers in virus pathogenesis and antiviral therapy. <i>Annual Reports in Medicinal Chemistry</i> , 2020, 54, 101-131.	0.5	63
33	A red-NIR fluorescent dye detecting nuclear DNA G-quadruplexes: in vitro analysis and cell imaging. <i>Chemical Communications</i> , 2017, 53, 2268-2271.	2.2	54
34	Inhibitors of HIV-1 Tat-Mediated Transactivation. <i>Current Medicinal Chemistry</i> , 2006, 13, 1305-1315.	1.2	52
35	The G-quadruplex-forming aptamer AS1411 potently inhibits HIV-1 attachment to the host cell. <i>International Journal of Antimicrobial Agents</i> , 2016, 47, 311-316.	1.1	50
36	Biological relevance and therapeutic potential of G-quadruplex structures in the human noncoding transcriptome. <i>Nucleic Acids Research</i> , 2021, 49, 3617-3633.	6.5	50

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37	G-Quadruplex Targeting in the Fight against Viruses: An Update. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10984.	1.8	50
38	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.	1.8	46
39	Multimeric G-quadruplexes: A review on their biological roles and targeting. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 89-102.	3.6	45
40	A Photoreactive G-quadruplex Ligand Triggered by Green Light. <i>Chemistry - A European Journal</i> , 2015, 21, 2330-2334.	1.7	43
41	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, 1895-1899.	1.4	40
42	Stabilization of Telomere G-Quadruplexes Interferes with Human Herpesvirus 6A Chromosomal Integration. <i>Journal of Virology</i> , 2017, 91, .	1.5	40
43	Antimicrobial Treatment and Containment Measures for an Extremely Drug-Resistant <i>Klebsiella pneumoniae</i> ST101 Isolate Carrying pKPN101-IT, a Novel Fully Sequenced <i>bla</i> _{KPC-2} Plasmid. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3768-3772.	1.8	39
44	A Catalytic and Selective Scissoring Molecular Tool for Quadruplex Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2018, 140, 14528-14532.	6.6	39
45	A core extended naphthalene diimide G-quadruplex ligand potently inhibits herpes simplex virus 1 replication. <i>Scientific Reports</i> , 2017, 7, 2341.	1.6	37
46	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, v20-v24.	0.6	36
47	Prevalence of <i>aac</i> (6)-Ib-cr plasmid-mediated and chromosome-encoded fluoroquinolone resistance in Enterobacteriaceae in Italy. <i>Gut Pathogens</i> , 2011, 3, 12.	1.6	35
48	Comparison of phenotypic methods for the detection of carbapenem non-susceptible Enterobacteriaceae. <i>Gut Pathogens</i> , 2014, 6, 13.	1.6	35
49	Conserved G-Quadruplexes Regulate the Immediate Early Promoters of Human Alphaherpesviruses. <i>Molecules</i> , 2019, 24, 2375.	1.7	35
50	Conserved presence of G-quadruplex forming sequences in the Long Terminal Repeat Promoter of Lentiviruses. <i>Scientific Reports</i> , 2017, 7, 2018.	1.6	34
51	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.	6.5	34
52	Photodynamic Therapy for Ras-Driven Cancers: Targeting G-Quadruplex RNA Structures with Bifunctional Alkyl-Modified Porphyrins. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1245-1260.	2.9	34
53	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.	1.1	33
54	Antiviral Activity of the G-Quadruplex Ligand TMPyP4 against Herpes Simplex Virus-1. <i>Viruses</i> , 2021, 13, 196.	1.5	33

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55	Strategies for Inhibiting Function of HIV-1 Accessory Proteins: A Necessary Route to AIDS Therapy?. <i>Current Medicinal Chemistry</i> , 2009, 16, 267-286.	1.2	32
56	Transfer of KPC-2 Carbapenemase from <i>Klebsiella pneumoniae</i> to <i>Escherichia coli</i> in a Patient: First Case in Europe. <i>Journal of Clinical Microbiology</i> , 2011, 49, 2040-2042.	1.8	32
57	Conformation and Stability of Intramolecular Telomeric G-Quadruplexes: Sequence Effects in the Loops. <i>PLoS ONE</i> , 2013, 8, e84113.	1.1	32
58	Selective targeting of mutually exclusive DNA G-quadruplexes: HIV-1 LTR as paradigmatic model. <i>Nucleic Acids Research</i> , 2020, 48, 4627-4642.	6.5	32
59	Bipyridyl ligands as photoactivatable mono- and bis-alkylating agents capable of DNA cross-linking. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 233-235.	1.5	28
60	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, 369-380.	1.4	28
61	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.	2.9	28
62	Characterisation of qnr plasmid-mediated quinolone resistance in Enterobacteriaceae from Italy: association of the qnrB19 allele with the integron element ISCR1 in <i>Escherichia coli</i> . <i>International Journal of Antimicrobial Agents</i> , 2010, 35, 578-583.	1.1	27
63	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.	3.2	26
64	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, 4224-4230.	6.5	25
65	Stable and Conserved G-Quadruplexes in the Long Terminal Repeat Promoter of Retroviruses. <i>ACS Infectious Diseases</i> , 2019, 5, 1150-1159.	1.8	25
66	Ultrarapid Detection of blaKPC1/2-12 from Perirectal and Nasal Swabs by Use of Real-Time PCR. <i>Journal of Clinical Microbiology</i> , 2012, 50, 1718-1720.	1.8	24
67	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.	2.0	23
68	The <i>MDM2</i> inducible promoter folds into four-tetrad antiparallel G-quadruplexes targetable to fight malignant liposarcoma. <i>Nucleic Acids Research</i> , 2021, 49, 847-863.	6.5	23
69	Targeting of <i>RET</i> 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.	0.8	22
70	Clerocidin alkylates DNA through its epoxide function: evidence for a fine tuned mechanism of action. <i>Nucleic Acids Research</i> , 2003, 31, 5149-5156.	6.5	21
71	Serotype epidemiology and multidrug resistance patterns of <i>Salmonella enterica</i> infecting humans in Italy. <i>Gut Pathogens</i> , 2016, 8, 26.	1.6	21
72	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, 6075-6085.	6.5	19

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73	Effects of Common Buffer Systems on Drug Activity: The Case of Clerocidin. <i>Chemical Research in Toxicology</i> , 2004, 17, 492-501.	1.7	17
74	Antiviral 6-amino-quinolones: Molecular basis for potency and selectivity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 4247-4251.	1.0	17
75	DNA-Interactive Anticancer Aza-Anthrapyrazoles: Biophysical and Biochemical Studies Relevant to the Mechanism of Action. <i>Molecular Pharmacology</i> , 2001, 59, 96-103.	1.0	16
76	Synthesis and antiproliferative mechanism of action of pyrrolo[3,2:6,7] cyclohepta[1,2-d]pyrimidin-2-amines as singlet oxygen photosensitizers. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 447-461.	2.6	14
77	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.	1.7	14
78	Concerted bis-alkylating reactivity of clerocidin towards unpaired cytosine residues in DNA. <i>Nucleic Acids Research</i> , 2004, 32, 5658-5667.	6.5	13
79	Rapid detection of blaVIM-1 and blaKPC1/2 alleles from clinical samples by multiplex PCR-based assays. <i>International Journal of Antimicrobial Agents</i> , 2013, 42, 68-71.	1.1	13
80	A Novel 9-Aza-Anthrapyrazole Effective against Human Prostatic Carcinoma Xenografts. <i>Oncology</i> , 2001, 61, 234-242.	0.9	12
81	Pyrrolo[3,2:6,7]cyclohepta[1,2-b]pyridines with potent photo-antiproliferative activity. <i>European Journal of Medicinal Chemistry</i> , 2017, 128, 300-318.	2.6	12
82	The Oncogenic Signaling Pathways in BRAF-Mutant Melanoma Cells are Modulated by Naphthalene Diimide-Like G-Quadruplex Ligands. <i>Cells</i> , 2019, 8, 1274.	1.8	12
83	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.	2.6	12
84	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.	2.2	12
85	Simocyclinone D8 turns on against Gram-negative bacteria in a clinical setting. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 1202-1204.	1.0	11
86	Angiotensin II Promotes SARS-CoV-2 Infection via Upregulation of ACE2 in Human Bronchial Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5125.	1.8	11
87	Fused in Liposarcoma Protein, a New Player in the Regulation of HIV-1 Transcription, Binds to Known and Newly Identified LTR G-Quadruplexes. <i>ACS Infectious Diseases</i> , 2022, 8, 958-968.	1.8	11
88	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, 1982-1991.	6.5	9
89	Reactivity of clerocidin towards adenine: implications for base-modulated DNA damage. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 976.	1.5	9
90	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.	1.1	9

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91	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.	1.1	9
92	Selective Recognition of a Single HIV-1 G-Quadruplex by Ultrafast Small-Molecule Screening. <i>Analytical Chemistry</i> , 2021, 93, 15243-15252.	3.2	9
93	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, 4278-4292.	6.5	8
94	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.	1.2	7
95	A Fragment-Based Approach for the Development of G-Quadruplex Ligands: Role of the Amidoxime Moiety. <i>Molecules</i> , 2018, 23, 1874.	1.7	7
96	Chromene Derivatives as Selective TERRA G-Quadruplex RNA Binders with Antiproliferative Properties. <i>Pharmaceuticals</i> , 2022, 15, 548.	1.7	7
97	G-Quadruplex Visualization in Cells via Antibody and Fluorescence Probe. <i>Methods in Molecular Biology</i> , 2019, 2035, 383-395.	0.4	6
98	Alternative Approaches to the Discovery and Development of Telomerase- Targeted Anticancer Drugs. <i>Mini-Reviews in Medicinal Chemistry</i> , 2003, 3, 37-49.	1.1	5
99	Topoisomerase I, II α and II β mRNA expression in peripheral blood mononuclear cells of patients with solid tumor: preliminary results. <i>Annals of Oncology</i> , 2006, 17, v25-v28.	0.6	5
100	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, 4660-4668.	1.1	5
101	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
102	Dissecting Reactivity of Clerocidin toward Common Buffer Systems by Means of Selected Drug Analogues. <i>Chemical Research in Toxicology</i> , 2005, 18, 35-40.	1.7	3
103	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.	1.1	2
104	Novel monomolecular derivatives of the anti-HIV-1 G-quadruplex-forming Hotoda TM s aptamer containing inversion of polarity sites. <i>European Journal of Medicinal Chemistry</i> , 2020, 208, 112786.	2.6	2
105	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.	0.8	2
106	Human Virus Genomes Are Enriched in Conserved Adenine/Thymine/Uracil Multiple Tracts That Pause Polymerase Progression. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	0