

Barbara Gatto

List of Publications by Year in descending order

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79
papers

2,568
citations

218677

26
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206112

48
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83
all docs

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docs citations

83
times ranked

2924
citing authors

#	ARTICLE	IF	CITATIONS
1	Substituted 2,5- <i>Bi</i> -1 <i>H</i> -benzimidazoles: Topoisomerase I Inhibition and Cytotoxicity. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 992-998.	6.4	231
2	Quinolone binding to DNA is mediated by magnesium ions.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 9671-9675.	7.1	164
3	Nucleic Acid Aptamers Based on the G-Quadruplex Structure: Therapeutic and Diagnostic Potential. <i>Current Medicinal Chemistry</i> , 2009, 16, 1248-1265.	2.4	138
4	6-Aminoquinolones as New Potential Anti-HIV Agents. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 3799-3802.	6.4	105
5	Structure-activity relationships of benzimidazoles and related heterocycles as topoisomerase I poisons. <i>Bioorganic and Medicinal Chemistry</i> , 1996, 4, 621-630.	3.0	95
6	Coralyn and related compounds as mammalian topoisomerase I and topoisomerase II poisons. <i>Bioorganic and Medicinal Chemistry</i> , 1996, 4, 781-791.	3.0	93
7	The evolving world of protein-G-quadruplex recognition: A medicinal chemist's perspective. <i>Biochimie</i> , 2011, 93, 1219-1230.	2.6	89
8	In vitro selection of DNA aptamers that bind <i>l</i> -tyrosinamide. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2543-2548.	3.0	86
9	On the mechanism of action of quinolone drugs. <i>Trends in Microbiology</i> , 1993, 1, 232-235.	7.7	81
10	Synthesis and Evaluation of Terbenzimidazoles as Topoisomerase I Inhibitors. <i>Journal of Medicinal Chemistry</i> , 1995, 38, 3638-3644.	6.4	80
11	Involvement of p53 in specific anti-neuroectodermal tumor activity of aloe-emodin. <i>International Journal of Cancer</i> , 2003, 106, 836-847.	5.1	70
12	Design, Synthesis, and Biological Properties of New Bis(acridine-4-carboxamides) as Anticancer Agents. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 3109-3115.	6.4	60
13	New Anti-Human Immunodeficiency Virus Type 1 6-Aminoquinolones: Mechanism of Action. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 889-896.	3.2	60
14	Inhibition of Subgenomic Hepatitis C Virus RNA Replication by Acridone Derivatives: Identification of an NS3 Helicase Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3354-3365.	6.4	54
15	Mg ²⁺ -mediated binding of 6-Substituted quinolones to DNA: relevance to biological activity. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 1555-1561.	3.0	52
16	Anthracyclines: recent developments in their separation and quantitation. <i>Biomedical Applications</i> , 2001, 764, 161-171.	1.7	51
17	Structure activity of topoisomerase I poisons related to hoechst 33342. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1994, 4, 2871-2876.	2.2	47
18	Peptidyl Anthraquinones as Potential Antineoplastic Drugs: Synthesis, DNA Binding, Redox Cycling, and Biological Activity. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 3114-3122.	6.4	41

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19	Differential Poisoning of Topoisomerases by Menogaril and Nogalamycin Dictated by the Minor Groove-Binding Nogalose Sugar. <i>Biochemistry</i> , 1997, 36, 13285-13291.	2.5	41
20	Pyrrolo-quinoline derivatives as potential antineoplastic drugs. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 1415-1422.	3.0	41
21	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.	3.2	40
22	Novel Pyrrolo[3,2-f]quinolines: Synthesis and Antiproliferative Activity. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1843-1848.	3.0	35
23	Quinolino[3,4- b]quinoxalines and pyridazino[4,3- c]quinoline derivatives: Synthesis, inhibition of topoisomerase III±, G-quadruplex binding and cytotoxic properties. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 704-717.	5.5	30
24	The 6-Aminoquinolone WC5 Inhibits Human Cytomegalovirus Replication at an Early Stage by Interfering with the Transactivating Activity of Viral Immediate-Early 2 Protein. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 1930-1940.	3.2	29
25	Human Thrombin Detection Through a Sandwich Aptamer Microarray: Interaction Analysis in Solution and in Solid Phase. <i>Sensors</i> , 2011, 11, 9426-9441.	3.8	29
26	Mapping Drug Interactions at the Covalent Topoisomerase II-DNA Complex by Bisantrene/Amsacrine Congeners. <i>Journal of Biological Chemistry</i> , 1998, 273, 12732-12739.	3.4	26
27	Studies of Anti-HIV Transcription Inhibitor Quinolones: Identification of Potent N1-Vinyl Derivatives. <i>ChemMedChem</i> , 2010, 5, 1880-1892.	3.2	26
28	Development of a Multiplex Sandwich Aptamer Microarray for the Detection of VEGF165 and Thrombin. <i>Sensors</i> , 2013, 13, 13425-13438.	3.8	26
29	Monoclonal Antibodies in Cancer Therapy. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2004, 4, 411-414.	7.0	26
30	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.	14.5	25
31	Ellagic Acid and Polyhydroxylated Urolithins Are Potent Catalytic Inhibitors of Human Topoisomerase II: An in Vitro Study. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 9162-9170.	5.2	25
32	Quantitation of camptothecin and related compounds. <i>Biomedical Applications</i> , 2001, 764, 121-140.	1.7	23
33	Sequence-specific interactions of drugs interfering with the topoisomerase-DNA cleavage complex. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2002, 1587, 145-154.	3.8	23
34	Perylene side chains modulate G-quadruplex conformation in biologically relevant DNA sequences. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9331-9339.	3.0	23
35	2,6-Di(1-aminoalkyl)-2,5,6,7-tetrahydropyrazolo[3,4,5-mn]pyrimido[5,6,1-de]acridine-5,7-diones: A Novel, Potent, Cytotoxic, and DNA-Binding Agents. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 696-702.	6.4	21
36	Clerocidin alkylates DNA through its epoxide function: evidence for a fine tuned mechanism of action. <i>Nucleic Acids Research</i> , 2003, 31, 5149-5156.	14.5	21

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37	Synthesis and biological evaluation of 2-phenylquinolones targeted at Tat/TAR recognition. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 714-717.	2.2	21
38	Computationally driven discovery of SARS-CoV-2 M ^{pro} inhibitors: from design to experimental validation. <i>Chemical Science</i> , 2022, 13, 3674-3687.	7.4	21
39	Atacicept, a homodimeric fusion protein for the potential treatment of diseases triggered by plasma cells. <i>Current Opinion in Investigational Drugs</i> , 2008, 9, 1216-27.	2.3	20
40	Synthesis and DNA Cleavage Activity of Bis-3-chloropiperidines as Alkylating Agents. <i>ChemMedChem</i> , 2014, 9, 2178-2185.	3.2	19
41	2-Phenylquinolones as Inhibitors of the HIV-1 Tat-TAR Interaction. <i>ChemMedChem</i> , 2009, 4, 935-938.	3.2	18
42	Effects of Common Buffer Systems on Drug Activity: The Case of Clerocidin. <i>Chemical Research in Toxicology</i> , 2004, 17, 492-501.	3.3	17
43	Antiviral 6-amino-quinolones: Molecular basis for potency and selectivity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 4247-4251.	2.2	17
44	Rational Design, Synthesis, and DNA Binding Properties of Novel Sequence-Selective Peptidyl Congeners of Ametrantrone. <i>ChemMedChem</i> , 2010, 5, 1080-1091.	3.2	17
45	DNA-Interactive Anticancer Aza-Anthrapyrazoles: Biophysical and Biochemical Studies Relevant to the Mechanism of Action. <i>Molecular Pharmacology</i> , 2001, 59, 96-103.	2.3	16
46	From Proteins to Nucleic Acid-Based Drugs: The Role of Biotech in Anti-VEGF Therapy. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2006, 6, 287-301.	1.7	16
47	Design, synthesis and biological evaluation of TAR and cTAR binders as HIV-1 nucleocapsid inhibitors. <i>MedChemComm</i> , 2013, 4, 1388.	3.4	16
48	Synthesis and in Vitro Screening of New Series of 2,6-Dipeptidyl-anthraquinones: Influence of Side Chain Length on HIV-1 Nucleocapsid Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1914-1924.	6.4	15
49	Indenocinnoline derivatives as G-quadruplex binders, topoisomerase II α inhibitors and antiproliferative agents. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2625-2634.	3.0	15
50	Drugs Acting on the Beta Isoform of Human Topoisomerase II (p180). <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2003, 3, 173-185.	7.0	15
51	Synthesis and evaluation of a bis-3-chloropiperidine derivative incorporating an anthraquinone pharmacophore. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4606-4609.	2.2	14
52	Bis-3-chloropiperidines containing bridging lysine linkers: Influence of side chain structure on DNA alkylating activity. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1241-1250.	3.0	13
53	Direct and Topoisomerase-II Mediated DNA Damage by Bis-3-chloropiperidines: The Importance of Being an Earnest G. <i>ChemMedChem</i> , 2017, 12, 1471-1479.	3.2	13
54	Behind the Mirror: Chirality Tunes the Reactivity and Cytotoxicity of Chloropiperidines as Potential Anticancer Agents. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 552-557.	2.8	13

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55	A new inactive conformation of SARS-CoV-2 main protease. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 363-378.	2.3	13
56	Polyphenolic C-glucosidic ellagitannins present in oak-aged wine inhibit HIV-1 nucleocapsid protein. <i>Tetrahedron</i> , 2015, 71, 3020-3026.	1.9	11
57	Mechanisms of HIV-1 Nucleocapsid Protein Inhibition by Lysyl-Peptidyl-Anthraquinone Conjugates. <i>Bioconjugate Chemistry</i> , 2016, 27, 247-256.	3.6	11
58	Virtual Cross-Linking of the Active Nemorubicin Metabolite PNU-159682 to Double-Stranded DNA. <i>Chemical Research in Toxicology</i> , 2017, 30, 614-624.	3.3	11
59	Development and Optimization of a Thrombin Sandwich Aptamer Microarray. <i>Microarrays (Basel)</i> , 2014, 1, 1-14.	0.78	10
60	Identification of novel 2-benzoxazolinone derivatives with specific inhibitory activity against the HIV-1 nucleocapsid protein. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 154-164.	5.5	10
61	Aromatic Linkers Unleash the Antiproliferative Potential of 3-Chloropiperidines Against Pancreatic Cancer Cells. <i>ChemMedChem</i> , 2020, 15, 2040-2051.	3.2	10
62	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.	14.5	9
63	Aminoacyl-analogues of mitoxantrone as novel DNA-damaging cytotoxic agents. <i>Arkivoc</i> , 2004, 2004, 204-218.	0.5	9
64	Preferred interaction of d-peptidyl-anthraquinones with double-stranded B-DNA. <i>International Journal of Biological Macromolecules</i> , 1997, 21, 319-326.	7.5	7
65	Nucleocapsid Annealing-Mediated Electrophoresis (NAME) Assay Allows the Rapid Identification of HIV-1 Nucleocapsid Inhibitors. <i>Journal of Visualized Experiments</i> , 2015, , 52474.	0.3	7
66	Non-Natural Linker Configuration in 2,6-Dipeptidyl-Anthraquinones Enhances the Inhibition of TAR RNA Binding/Annealing Activities by HIV-1 NC and Tat Proteins. <i>Bioconjugate Chemistry</i> , 2018, 29, 2195-2207.	3.6	7
67	Appended Aromatic Moieties in Flexible Bis-3-Chloropiperidines Confer Tropism against Pancreatic Cancer Cells. <i>ChemMedChem</i> , 2021, 16, 860-868.	3.2	7
68	Bis-3-Chloropiperidines Targeting TAR RNA as A Novel Strategy to Impair the HIV-1 Nucleocapsid Protein. <i>Molecules</i> , 2021, 26, 1874.	3.8	7
69	Effective DNA Inhibitors of Cathepsin G by In Vitro Selection. <i>International Journal of Molecular Sciences</i> , 2008, 9, 1008-1023.	4.1	6
70	Enzymatic Formation of PEGylated Oligonucleotides. <i>Bioconjugate Chemistry</i> , 2014, 25, 433-441.	3.6	6
71	B-CePs as cross-linking probes for the investigation of RNA higher-order structure. <i>Nucleic Acids Research</i> , 2021, 49, 6660-6672.	14.5	5
72	Topoisomerase I-targeting drugs. <i>Advances in DNA Sequence-Specific Agents</i> , 1998, 3, 39-66.	0.3	4

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73	Aminoacyl-Anthraquinones: DNA-Binding and Sequence Specificity. Jerusalem Symposia on Quantum Chemistry and Biochemistry, 1990, , 207-224.	0.2	4
74	Further insight into the Zn ²⁺ -mediated binding of streptonigrin to DNA. Il Farmaco, 1998, 53, 645-649.	0.9	2
75	Understanding the Alkylation Mechanism of 3- ¹³ C-Chloropiperidines – NMR Kinetic Studies and Isolation of Bicyclic Aziridinium Ions. European Journal of Organic Chemistry, 2021, 2021, 5905-5913.	2.4	2
76	Design and Synthesis of WM5 Analogues as HIV-1 TAR RNA Binders. Open Medicinal Chemistry Journal, 2019, 13, 16-28.	2.4	2
77	Multiple <i>in Vitro</i> Inhibition of HIV-1 Proteins by 2,6-Dipeptidyl-anthraquinone Conjugates Targeting the PBS RNA. ACS Medicinal Chemistry Letters, 2020, 11, 949-955.	2.8	1
78	In Vitro Evaluation of Bis-3-Chloropiperidines as RNA Modulators Targeting TAR and TAR-Protein Interaction. International Journal of Molecular Sciences, 2022, 23, 582.	4.1	1
79	DNA-Binding Properties of Cytotoxic Naphtindolizinedione-Carboxamides Acting as Type II Topoisomerase Inhibitors. A Combined In Silico and Experimental Study. Chemistry Proceedings, 2021, 3, 96.	0.1	0