Maria Bretner

List of Publications by Year
in descending order

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65 papers	1,689 citations	331670 21 h-index	302126 39 g-index
67 all docs	67 docs citations	67 times ranked	1728 citing authors

#	Article	IF	Citations
1	Halogenated benzimidazoles and benzotriazoles as inhibitors of the NTPase/helicase activities of hepatitis C and related viruses. FEBS Journal, 2003, 270, 1645-1653.	0.2	108
2	Synthesis and activity of 1H-benzimidazole and 1H-benzotriazole derivatives as inhibitors of Acanthamoeba castellanii. Bioorganic and Medicinal Chemistry, 2004, 12, 2617-2624.	3.0	103
3	Ring-Expanded (â€œFatâ€) Nucleoside and Nucleotide Analogues Exhibit Potent in Vitro Activity againstFlaviviridaeNTPases/Helicases, Including Those of the West Nile Virus, Hepatitis C Virus, and Japanese Encephalitis Virus. Journal of Medicinal Chemistry, 2003, 46, 4149-4164.	6.4	90
4	Purification and Characterization of West Nile Virus Nucleoside Triphosphatase (NTPase)/Helicase: Evidence for Dissociation of the NTPase and Helicase Activities of the Enzyme. Journal of Virology, 2001, 75, 3220-3229.	3.4	83
5	An Unbiased Evaluation of CK2 Inhibitors by Chemoproteomics. Molecular and Cellular Proteomics, 2008, 7, 1077-1088.	3.8	79
6	Tetrabromobenzotriazole (TBBt) and tetrabromobenzimidazole (TBBz) as selective inhibitors of protein kinase CK2: Evaluation of their effects on cells and different molecular forms of human CK2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1754, 271-280.	2.3	77
7	Selectivity of 4,5,6,7-tetrabromobenzimidazole as an ATP-competitive potent inhibitor of protein kinase CK2 from various sources. Biochemical and Biophysical Research Communications, 2003, 306, 129-133.	2.1	70
8	Removal of 5â€²-terminal m7G from eukaryotic mRNAs by potato nucleotide pyrophosphatase and its effect on translation. Nucleic Acids Research, 1977, 4, 3065-3082.	14.5	56
9	2-Thio derivatives of dUrd and 5-fluoro-dUrd and their 5'-monophosphates: synthesis, interaction with tumor thymidylate synthase, and in vitro antitumor activity. Journal of Medicinal Chemistry, 1993, 36, 3611-3617.	6.4	55
10	Casein kinase II-mediated phosphorylation of general repressor Maf1 triggers RNA polymerase III activation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4926-4931.	7.1	55
11	Structure of the Human Protein Kinase CK2 Catalytic Subunit CK2Î±â€² and Interaction Thermodynamics with the Regulatory Subunit CK2Î². Journal of Molecular Biology, 2011, 407, 1-12.	4.2	46
12	Nuclear Export of S6K1 II Is Regulated by Protein Kinase CK2 Phosphorylation at Ser-17. Journal of Biological Chemistry, 2006, 281, 31188-31201.	3.4	45
13	Synthesis and Biological Activity of 1H-benzotriazole and 1H-benzimidazole Analogues â€” Inhibitors of the NTPase/Helicase of HCV and of Some Related Flaviviridae. Antiviral Chemistry and Chemotherapy, 2005, 16, 315-326.	0.6	43
14	Synthesis of new analogs of benzotriazole, benzimidazole and phthalimideâ€”potential inhibitors of human protein kinase CK2. Bioorganic and Medicinal Chemistry, 2009, 17, 1573-1578.	3.0	43
15	Mechanism of inhibition of mammalian tumor and other thymidylate synthases by N4-hydroxy-dCMP, N4-hydroxy-5-fluoro-dCMP, and related analogs. Biochemistry, 1990, 29, 10835-10842.	2.5	42
16	Synthesis of novel polybrominated benzimidazole derivativesâ€”potential CK2 inhibitors with anticancer and proapoptotic activity. Bioorganic and Medicinal Chemistry, 2016, 24, 735-741.	3.0	39
17	Searching for a new anti-HCV therapy: Synthesis and properties of tropolone derivatives. Biochemical and Biophysical Research Communications, 2006, 341, 641-647.	2.1	37
18	Experimental (13C NMR) and Theoretical (ab Initio Molecular Orbital Calculations) Studies on the Prototropic Tautomerism of Benzotriazole and Some Derivatives Symmetrically Substituted on the Benzene Ring. Journal of Physical Chemistry A, 2007, 111, 6501-6509.	2.5	33

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19	Unbiased Functional Proteomics Strategy for Protein Kinase Inhibitor Validation and Identification ofbona fideProtein Kinase Substrates: Application to Identification of EEF1D as a Substrate for CK2. Journal of Proteome Research, 2011, 10, 4887-4901.	3.7	29
20	Efficacy and mechanism of anti-tumor action of new potential CK2 inhibitors toward glioblastoma cells. International Journal of Oncology, 2009, 35, 1091-100.	3.3	27
21	High-Yield Regioselective Thiation of Biologically Important Pyrimidinones, Dihydropyrimidinones and Their Ribo, 2â€²-Deoxyribo and 2â€², 3â€²-Dideoxyribo Nucleosides. Nucleosides & Nucleotides, 1993, 12, 245-261.	0.5	26
22	Studies on the anti-hepatitis C virus activity of newly synthesized tropolone derivatives: Identification of NS3 helicase inhibitors that specifically inhibit subgenomic HCV replication. Bioorganic and Medicinal Chemistry, 2010, 18, 5129-5136.	3.0	22
23	Synthesis of novel proxyphylline derivatives with dual Anti-Candida albicans and anticancer activity. European Journal of Medicinal Chemistry, 2018, 150, 307-333.	5.5	22
24	New inhibitors of protein kinase CK2, analogues of benzimidazole and benzotriazole. Molecular and Cellular Biochemistry, 2008, 316, 87-89.	3.1	21
25	Enzymatic activity with an incomplete catalytic spine: insights from a comparative structural analysis of human CK2Î± and its paralogous isoform CK2Î±â€². Molecular and Cellular Biochemistry, 2011, 356, 57-65.	3.1	21
26	Synthesis of novel chiral TBBt derivatives with hydroxyl moiety. Studies on inhibition of human protein kinase CK2Î± and cytotoxicity properties. European Journal of Medicinal Chemistry, 2014, 84, 364-374.	5.5	21
27	5-Substituted N4-Hydroxy-2â€˜-deoxycytidines and Their 5â€˜-Monophosphates:â€‰ Synthesis, Conformation, Interaction with Tumor Thymidylate Synthase, and in Vitro Antitumor Activity. Journal of Medicinal Chemistry, 2000, 43, 4647-4656.	6.4	20
28	Synthesis, in vitro antiproliferative activity and kinase profile of new benzimidazole and benzotriazole derivatives. Bioorganic Chemistry, 2017, 72, 1-10.	4.1	19
29	Diacritic Binding of an Indenoindole Inhibitor by CK2Î± Paralogs Explored by a Reliable Path to Atomic Resolution CK2Î±â€² Structures. ACS Omega, 2019, 4, 5471-5478.	3.5	18
30	Synthesis and interactions with thymidylate synthase of 2,4-dithio analogues of BUMP and 5-fluoro-dUMP. BBA - Proteins and Proteomics, 1996, 1293, 1-8.	2.1	17
31	Substrate/inhibition studies of bacteriophage T7 RNA polymerase with the 5â€²-triphosphate derivative of a ring-expanded (â€˜fatâ€™) nucleoside possessing potent antiviral and anticancer activities. Bioorganic and Medicinal Chemistry, 1999, 7, 2931-2936.	3.0	17
32	TBBz but not TBBt discriminates between two molecular forms of CK2 in vivo and its implications. Biochemical and Biophysical Research Communications, 2003, 312, 623-628.	2.1	16
33	Design and synthesis of CK2 inhibitors. Molecular and Cellular Biochemistry, 2011, 356, 91-96.	3.1	16
34	Studies on the chemoenzymatic synthesis of (R)- and (S)-methyl 3-aryl-3-hydroxypropionates: the influence of toluene-pretreatment of lipase preparations on enantioselective transesterifications. Tetrahedron: Asymmetry, 2013, 24, 925-936.	1.8	16
35	Functional proteomics strategy for validation of protein kinase inhibitors reveals new targets for a TBB-derived inhibitor of protein kinase CK2. Journal of Proteomics, 2013, 81, 70-79.	2.4	16
36	Theoretical and matrix-isolation experimental studies on 2-thiocytosine and 5-fluoro-2-thiocytosine. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1993, 1172, 239-246.	2.4	15

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37	Thermodynamic parameters for binding of some halogenated inhibitors of human protein kinase CK2. Biochemical and Biophysical Research Communications, 2015, 456, 282-287.	2.1	15
38	Synthesis and Evaluation of ATP-Binding Site Directed Potential Inhibitors of Nucleoside Triphosphatases/ Helicases and Polymerases of Hepatitis C and other SelectedFlaviviridaeViruses. Antiviral Chemistry and Chemotherapy, 2004, 15, 35-42.	0.6	14
39	Chemical proteomics and functional proteomics strategies for protein kinase inhibitor validation and protein kinase substrate identification: Applications to protein kinase CK2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1352-1358.	2.3	13
40	Crystal structures of 5-fluoro-dUrd and its 2 and/or 4-thio analogues: models of substituted dUMP pyrimidine ring interacting with thymidylate synthase. BBA - Proteins and Proteomics, 1998, 1382, 277-286.	2.1	12
41	Synthesis of polybrominated benzimidazole and benzotriazole derivatives containing a tetrazole ring and their cytotoxic activity. Monatshefte FÃ¼r Chemie, 2016, 147, 1789-1796.	1.8	12
42	Synthesis and in vitro Antibacterial Activity of 5-Halogenomethylsulfonyl- Benzimidazole and Benzotriazole Derivatives. Medicinal Chemistry, 2013, 9, 1129-1136.	1.5	12
43	Infrared spectra of 6-azathiouracils: an experimental matrix isolation and theoretical ab initio SCF/6-311Gâˆ—â€— study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1996, 52, 645-659.	3.9	10
44	Lipaseâ€Catalyzed Kinetic Resolution of Novel Antifungal Nâ€Substituted Benzimidazole Derivatives. Chirality, 2016, 28, 347-354.	2.6	10
45	Effect of Simultaneous Inhibition of Protein Kinase CK2 and Thymidylate Synthase in Leukemia and Breast Cancer Cells. Anticancer Research, 2018, 38, 4617-4627.	1.1	10
46	Simultaneous Inhibition of Protein Kinase CK2 and Dihydrofolate Reductase Results in Synergistic Effect on Acute Lymphoblastic Leukemia Cells. Anticancer Research, 2019, 39, 3531-3542.	1.1	10
47	Formylation of a metathesis-derivedansa[4]-ferrocene: a simple route to anticancer organometallics. Dalton Transactions, 2020, 49, 11504-11511.	3.3	10
48	Nuclear Export of S6K1 II Is Regulated by Protein Kinase CK2 Phosphorylation at Ser-17. Journal of Biological Chemistry, 2006, 281, 31188-31201.	3.4	9
49	Thymidylate synthases from Hymenolepis diminuta and regenerating rat liver: purification, properties, and inhibition by substrate and cofactor analogues. BBA - Proteins and Proteomics, 1995, 1249, 127-136.	2.1	8
50	POTENTIN VITROANTICANCER ACTIVITIES OF RING-EXPANDED (â€œFATâ€) NUCLEOSIDES CONTAINING THE IMIDAZO[4,5-E][1,3]DIAZEPINE RING SYSTEM. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 1043-1045.	1.1	8
51	Synthesis of new optically pure tetrabromobenzotriazole derivatives via lipase-catalyzed transesterification. Journal of Molecular Catalysis B: Enzymatic, 2013, 87, 44-50.	1.8	8
52	1H NMR Conformational Study of a Variety of Î±-Anomers of C5-Substituted 2â€²-Deoxyuridines: Comparison to Their Antiherpetic Î² Counterparts. Biochemical and Biophysical Research Communications, 2001, 283, 1142-1149.	2.1	7
53	Interaction of the 5â€²-phosphates of the anti-hiv agents, 3â€²-azido-3â€²-deoxythymidine and 3â€²-azido-2â€²,3â€²-dideoxyuridine, with thymidylate synthase. Biochemical and Biophysical Research Communications, 1988, 155, 1418-1423.	2.1	6
54	Human dihydrofolate reductase is a substrate of protein kinase CK2Î±. Biochemical and Biophysical Research Communications, 2019, 513, 368-373.	2.1	6

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55	A competition between hydrophobic and electrostatic interactions in proteinâ€“ligand systems. Binding of heterogeneously halogenated benzotriazoles by the catalytic subunit of human protein kinase CK2. IUBMB Life, 2020, 72, 1211-1219.	3.4	6
56	Synthesis of Novel Acyl Derivatives of 3-(4,5,6,7-Tetrabromo-1H-benzimidazol-1-yl)propan-1-olsâ€”Intracellular TBBi-Based CK2 Inhibitors with Proapoptotic Properties. International Journal of Molecular Sciences, 2021, 22, 6261.	4.1	6
57	New insight into nucleo Î±-amino acids â€“ Synthesis and SAR studies on cytotoxic activity of Î²-pyrimidine alanines. Bioorganic Chemistry, 2020, 100, 103864.	4.1	6
58	Synthesis, Solution Conformation and Anti-HIV Activity of Novel 3-Substituted-2â€²,3â€²-Dideoxy-5-Hydroxymethyl-Uridines and Their 4,5-Substituted Analogues. Antiviral Chemistry and Chemotherapy, 2003, 14, 127-138.	0.6	4
59	Synthesis of a new inhibitor of thymidylate synthase, 5-fluoro-2-thio-2'-deoxyuridine-5'-phosphate. Collection of Czechoslovak Chemical Communications, 1990, 55, 109-112.	1.0	4
60	Inhibitors of the NTPase/helicases of hepatitis C and related Flaviviridae viruses. Acta Poloniae Pharmaceutica, 2004, 61 Suppl, 26-8.	0.1	4
61	Potent Anti-hepatitis B Viral Activity and Inhibition of Bacteriophage T7 RNA Polymerase by a â€œFatâ€• Nucleoside and Its 5â€²-Triphosphate Derivative: Synthetic, Biochemical, and Biological Studies of 4,8-Diamino-6-imino-6h-1-Î²-D-ribofuranosylimidazo[4,5-E][1,3]diazepine-5â€²-triphosphate. Nucleosides & Nucleotides, 1999, 18, 837-838.	0.5	2
62	Potential bioisosteres of Î²-uracilalanines derived from 1H-1,2,3-triazole-C-carboxylic acids. Bioorganic Chemistry, 2019, 83, 500-510.	4.1	2
63	Study of the physicochemical properties of protein kinase CK2 inhibitors -TBBt, TBBi and 2-Me-TBBi. Fluid Phase Equilibria, 2019, 479, 52-62.	2.5	2
64	Synthesis of 4,5,6,7â€•Tetrabromoâ€•1Hâ€benzimidazole Derivatives. Journal of Heterocyclic Chemistry, 2015, 52, 841-845.	2.6	1
65	Interaction with 2(4)-Thio-5-Fluoro-dUMP of Thymidylate Synthases with Differing Sensitivities to 5-Fluoro-dUMP. Advances in Experimental Medicine and Biology, 1993, 338, 617-620.	1.6	0