Ulrich Bierbach

List of Publications by Year
in descending order

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80	2,733	126907	206112
papers	citations	33 h-index	48 g-index

89	89	89	2409
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design, Synthesis, and Biological Activity of a Novel Non-Cisplatin-type Platinumâ^'Acridine Pharmacophore. Journal of Medicinal Chemistry, 2001, 44, 4492-4496.	6.4	122
2	Synthesis, Structure, Biological Activity, and DNA Binding of Platinum(II) Complexes of the Typetrans-[PtCl2(NH3)L] (L = Planar Nitrogen Base). Effect of L and Cis/Trans Isomerism on Sequence Specificity and Unwinding Properties Observed in Globally Platinated DNA. Inorganic Chemistry, 1999, 38, 3535-3542.	4.0	103
3	A Non-Cross-Linking Platinumâ^'Acridine Agent with Potent Activity in Non-Small-Cell Lung Cancer. Journal of Medicinal Chemistry, 2008, 51, 7574-7580.	6.4	100
4	Platinum-Intercalator Conjugates: From DNA-Targeted Cisplatin Derivatives to Adenine Binding Complexes as Potential Modulators of Gene Regulation. Current Topics in Medicinal Chemistry, 2004, 4, 1537-1549.	2.1	99
5	Zirconium tetraazamacrocycle complexes display extraordinary stability and provide a new strategy for zirconium-89-based radiopharmaceutical development. Chemical Science, 2017, 8, 2309-2314.	7.4	87
6	DNA interactions of antitumor trans-[PtCl2(NH3)(quinoline)]. FEBS Journal, 1998, 254, 547-557.	0.2	80
7	Solution Structural Study of a DNA Duplex Containing the Guanine-N7 Adduct Formed by a Cytotoxic Platinumâ^'Acridine Hybrid Agent,. Biochemistry, 2005, 44, 6059-6070.	2.5	79
8	Mechanism of action of non-cisplatin type DNA-targeted platinum anticancer agents: DNA interactions of novel acridinylthioureas and their platinum conjugates. Biochemical Pharmacology, 2002, 64, 191-200.	4.4	78
9	Modification of Platinum(II) Antitumor Complexes with Sulfur Ligands. 1. Synthesis, Structure, and Spectroscopic Properties of Cationic Complexes of the Types [PtCl(diamine)(L)]NO3and [{PtCl(diamine)}2(L-L)](NO3)2(L = Monofunctional Thiourea Derivative; L-L = Bifunctional Thiourea) Tj ETQq1 1 0.784314 rgBT /Overlo	4.0	77
10	Using Fluorescent Postâ€Labeling To Probe the Subcellular Localization of DNAâ€Targeted Platinum Anticancer Agents. Angewandte Chemie - International Edition, 2013, 52, 3350-3354.	13.8	74
11	DNA Metalatingâ€"Intercalating Hybrid Agents for the Treatment of Chemoresistant Cancers. Chemistry - A European Journal, 2012, 18, 12926-12934.	3.3	73
12	The Cellâ€™s Nucleolus: an Emerging Target for Chemotherapeutic Intervention. ChemMedChem, 2013, 8, 1441-1449.	3.2	51
13	Unprecedented Monofunctional Metalation of Adenine Nucleobase in Guanine- and Thymine-Containing Dinucleotide Sequences by a Cytotoxic Platinumâ^'Acridine Hybrid Agent. Journal of the American Chemical Society, 2003, 125, 9629-9637.	13.7	50
14	Duplex-Promoted Platination of Adenine-N3 in the Minor Groove of DNA:â€‰ Challenging a Longstanding Bioinorganic Paradigm. Journal of the American Chemical Society, 2005, 127, 1160-1169.	13.7	49
15	Modulation of Nucleotide Binding oftransPlatinum(II) Complexes by Planar Ligands. A Combined Proton NMR and Molecular Mechanics Study. Inorganic Chemistry, 1997, 36, 3657-3665.	4.0	46
16	Replacement of a Thiourea-S with an Amidine-NH Donor Group in a Platinumâ^'Acridine Antitumor Compound Reduces the Metalâ€™s Reactivity with Cysteine Sulfur. Journal of Medicinal Chemistry, 2009, 52, 3424-3427.	6.4	46
17	Using a Build-and-Click Approach for Producing Structural and Functional Diversity in DNA-Targeted Hybrid Anticancer Agents. Journal of Medicinal Chemistry, 2012, 55, 10198-10203.	6.4	46
18	Inversion of the Cis Geometry Requirement for Cytotoxicity in Structurally Novel Platinum(II) Complexes Containing the Bidentate N,O-Donor Pyridin-2-yl-acetate. Inorganic Chemistry, 2000, 39, 1882-1890.	4.0	44

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19	Effect of the Diamine Nonleaving Group in Platinumâ^'Acridinylthiourea Conjugates on DNA Damage and Cytotoxicity. Journal of Medicinal Chemistry, 2007, 50, 2259-2263.	6.4	44
20	Gold(I) Analogues of a Platinumâ^'Acridine Antitumor Agent Are Only Moderately Cytotoxic but Show Potent Activity against Mycobacterium tuberculosis. Journal of Medicinal Chemistry, 2009, 52, 6519-6522.	6.4	44
21	Inhibition of DNA Synthesis by a Platinumâ€"Acridine Hybrid Agent Leads to Potent Cell Kill in Nonsmall Cell Lung Cancer. ACS Medicinal Chemistry Letters, 2011, 2, 870-874.	2.8	44
22	Unusual intercalation of acridin-9-ylthiourea into the 5'-GA/TC DNA base step from the minor groove: implications for the covalent DNA adduct profile of a novel platinum-intercalator conjugate. Nucleic Acids Research, 2003, 31, 4138-4146.	14.5	43
23	Synthesis, Aqueous Reactivity, and Biological Evaluation of Carboxylic Acid Ester-Functionalized Platinumâ€"Acridine Hybrid Anticancer Agents. Journal of Medicinal Chemistry, 2012, 55, 7817-7827.	6.4	43
24	Redesigning the DNAâ€Targeted Chromophore in Platinumâ€"Acridine Anticancer Agents: A Structureâ€"Activity Relationship Study. Chemistry - A European Journal, 2014, 20, 16174-16187.	3.3	43
25	Structureâ€"activity relationships in platinumâ€"acridinylthiourea conjugates: effect of the thiourea nonleaving group on drug stability, nucleobase affinity, and in vitro cytotoxicity. Journal of Biological Inorganic Chemistry, 2004, 9, 453-461.	2.6	42
26	Synthesis, Biological Activity, and DNA-Damage Profile of Platinum-Threading Intercalator Conjugates Designed To Target Adenine. Journal of Medicinal Chemistry, 2006, 49, 3204-3214.	6.4	41
27	Metalâ^'Intercalator-Mediated Self-Association and One-Dimensional Aggregation in the Structure of the Excised Major DNA Adduct of a Platinumâ^'Acridine Agent. Journal of the American Chemical Society, 2004, 126, 4492-4493.	13.7	39
28	Kinetically Favored Platination of Adenine in the G-Rich Human Telomeric Repeat. Journal of the American Chemical Society, 2007, 129, 15764-15765.	13.7	39
29	Comparative Chemogenomics To Examine the Mechanism of Action of DNA-Targeted Platinum-Acridine Anticancer Agents. ACS Chemical Biology, 2012, 7, 1892-1901.	3.4	39
30	Oxidative Addition of the Dithiobis(formamidinium) Cation to Platinum(II) Chloro Am(m)ine Compounds:Â Studies on Structure, Spectroscopic Properties, Reactivity, and Cytotoxicity of a New Class of Platinum(IV) Complexes ExhibitingS-Thiourea Coordination. Inorganic Chemistry, 1996, 35, 4865-4872.	4.0	38
31	Adenine-N3 in the DNA Minor Groove - An Emerging Target for Platinum Containing Anticancer Pharmacophores. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 125-138.	1.7	36
32	Modification of Platinum(II) Antitumor Complexes with Sulfur Ligands. 2. Reactivity and Nucleotide Binding Properties of Cationic Complexes of the Types [PtCl(diamine)(L)]NO3and [{PtCl(diamine)}2(L-L)](NO3)2(L = Monofunctional Thiourea Derivative; L-L = Bifunctional Thiourea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.0	35
33	Cellular Recognition and Repair of Monofunctionalâ€"Intercalative Platinumâ€"DNA Adducts. Chemical Research in Toxicology, 2015, 28, 2170-2178.	3.3	34
34	Modulation of the chemical and biological properties of trans platinum complexes: monofunctional platinum complexes containing one nucleobase as potential antiviral chemotypes. Journal of Biological Inorganic Chemistry, 2000, 5, 575-583.	2.6	33
35	Replacement of a Thiourea with an Amidine Group in a Monofunctional Platinumâ€"Acridine Antitumor Agent. Effect on DNA Interactions, DNA Adduct Recognition and Repair. Molecular Pharmaceutics, 2011, 8, 1941-1954.	4.6	33
36	Unique Base-Step Recognition by a Platinumâ^'Acridinylthiourea Conjugate Leads to a DNA Damage Profile Complementary to That of the Anticancer Drug Cisplatin. Biochemistry, 2004, 43, 8560-8567.	2.5	32

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37	Characterization of the bisintercalative DNA binding mode of a bifunctional platinum-acridine agent. Nucleic Acids Research, 2005, 33, 5622-5632.	14.5	32
38	Interactions of a Platinum-Modified Perylene Derivative with the Human Telomeric G-Quadruplex. Journal of Physical Chemistry B, 2011, 115, 13701-13712.	2.6	29
39	Investigating the cellular fate of a DNA-targeted platinum-based anticancer agent by orthogonal double-click chemistry. Journal of Biological Inorganic Chemistry, 2014, 19, 415-426.	2.6	29
40	Analysis of the DNA damage produced by a platinumâ€“acridine antitumor agent and its effects in NCI-H460 lung cancer cells. Metallomics, 2012, 4, 645.	2.4	28
41	Synthesis, Reactivity, and Biological Activity of Gold(I) Complexes Modified with Thiourea-Functionalized Tyrosine Kinase Inhibitors. Inorganic Chemistry, 2015, 54, 3316-3324.	4.0	28
42	Structural and reactivity studies on the ternary system guanine/methionine/trans-[PtCl2(NH3)L] (L=NH3, quinoline): implications for the mechanism of action of nonclassical trans-platinum antitumor complexes. Journal of Biological Inorganic Chemistry, 1998, 3, 570-580.	2.6	26
43	A non-crosslinking platinumâ€“acridine hybrid agent shows enhanced cytotoxicity compared to clinical BCNU and cisplatin in glioblastoma cells. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 443-446.	2.2	25
44	Rates of intercalator-driven platination of DNA determined by a restriction enzyme cleavage inhibition assay. Journal of Biological Inorganic Chemistry, 2011, 16, 373-380.	2.6	25
45	Biophysical characterization and molecular modeling of the coordinative-intercalative DNA monoadduct of a platinum-acridinylthiourea agent in a site-specifically modified dodecamer. Journal of Biological Inorganic Chemistry, 2004, 9, 335-344.	2.6	24
46	Platinum-acridinylthiourea conjugates show cell line-specific cytotoxic enhancement in H460 lung carcinoma cells compared to cisplatin. Cancer Chemotherapy and Pharmacology, 2005, 56, 337-343.	2.3	24
47	Design of Enzymatically Cleavable Prodrugs of a Potent Platinumâ€Containing Anticancer Agent. Chemistry - A European Journal, 2014, 20, 16164-16173.	3.3	24
48	Bis(acridinylthiourea)platinum(II) complexes: synthesis, DNA affinity, and biological activity in glioblastoma cells. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 855-858.	2.2	22
49	DNA Minor Groove Adducts Formed by a Platinumâ^'Acridine Conjugate Inhibit Association of TATA-Binding Protein with Its Cognate Sequenceâ€. Biochemistry, 2005, 44, 11262-11268.	2.5	22
50	Unusual Reactivity of a Potent Platinumâ€“Acridine Hybrid Antitumor Agent. ACS Medicinal Chemistry Letters, 2011, 2, 687-691.	2.8	21
51	Design of a platinumâ€“acridineâ€“endoxifen conjugate targeted at hormone-dependent breast cancer. Chemical Communications, 2013, 49, 2415.	4.1	21
52	Largeâ€Pore Functionalized Mesoporous Silica Nanoparticles as Drug Delivery Vector for a Highly Cytotoxic Hybrid Platinumâ€“Acridine Anticancer Agent. Chemistry - A European Journal, 2017, 23, 3386-3397.	3.3	21
53	Cytotoxic acridinylthiourea and its platinum conjugate produce enzyme-mediated DNA strand breaks. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 2953-2955.	2.2	18
54	Tuning the DNA Conformational Perturbations Induced by Cytotoxic Platinumâ^'Acridine Bisintercalators: Effect of Metal Cis/Trans Isomerism and DNA Threading Groups. Journal of Medicinal Chemistry, 2008, 51, 3069-3072.	6.4	18

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55	Effect of linkage geometry on biological activity in thiourea- and guanidine-substituted acridines and platinumâ€“acridines. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3799-3801.	2.2	17
56	Synthesis, structure, and reactivity of monofunctional platinum(II) and palladium(II) complexes containing the sterically hindered ligand 6-(methylpyridin-2-yl)acetate. Journal of Inorganic Biochemistry, 2005, 99, 2013-2023.	3.5	16
57	PT-ACRAMTU, A Platinumâ€“Acridine Anticancer Agent, Lengthens and Aggregates, but does not Stiffen or Soften DNA. Cell Biochemistry and Biophysics, 2013, 67, 1103-1113.	1.8	15
58	Target-selective delivery and activation of platinum-based anticancer agents. Future Medicinal Chemistry, 2015, 7, 911-927.	2.3	15
59	Design and cellular studies of a carbon nanotube-based delivery system for a hybrid platinum-acridine anticancer agent. Journal of Inorganic Biochemistry, 2016, 165, 170-180.	3.5	15
60	Metal-Containing Pharmacophores in Molecularly Targeted Anticancer Therapies and Diagnostics. European Journal of Inorganic Chemistry, 2017, 2017, 1561-1572.	2.0	15
61	Thermally Inert Metal Ammines as Light-Inducible DNA-Targeted Agents. Synthesis, Photochemistry, and Photobiology of a Prototypical Rhodium(III)â^'Intercalator Conjugate. Inorganic Chemistry, 2002, 41, 7159-7169.	4.0	14
62	Human Serum Albumin-Delivered [Au(PEt₃)]⁺ Is a Potent Inhibitor of T Cell Proliferation. ACS Medicinal Chemistry Letters, 2017, 8, 572-576.	2.8	13
63	Unexpected Reactivity of the 9-Aminoacridine Chromophore in Guanidylation Reactions. Journal of Organic Chemistry, 2007, 72, 5387-5390.	3.2	12
64	Effects of platinum-based anticancer drugs on the trace element profile of liver and kidney tissue from mice. Journal of Trace Elements in Medicine and Biology, 2019, 54, 62-68.	3.0	12
65	Platination of cysteine by an epidermal growth factor receptor kinase-targeted hybrid agent. Chemical Communications, 2018, 54, 7479-7482.	4.1	11
66	FeI3SC(NMe2)2, a Neutral Thiourea Complex of Iron(III) Iodide. Angewandte Chemie International Edition in English, 1989, 28, 776-777.	4.4	10
67	Probing Platinumâ^'Adenine-N3 Adduct Formation with DNA Minor-Groove Binding Agents. Chemical Research in Toxicology, 2010, 23, 1148-1150.	3.3	10
68	Cysteine-Directed Bioconjugation of a Platinum(II)â€“Acridine Anticancer Agent. Inorganic Chemistry, 2019, 58, 43-46.	4.0	10
69	A membrane transporter determines the spectrum of activity of a potent platinumâ€“acridine hybrid anticancer agent. Scientific Reports, 2020, 10, 15201.	3.3	10
70	Discovery of a Chiral DNAâ€Targeted Platinumâ€“Acridine Agent with Potent Enantioselective Anticancer Activity. Angewandte Chemie - International Edition, 2020, 59, 21965-21970.	13.8	9
71	Structure-Activity Relationships Within Di- and Trinuclear Platinum Phase-I Clinical Anticancer Agents. , 2006, , 477-496.		8
72	Synthesis and biological evaluation of platinumâ€“acridine hybrid agents modified with bipyridine non-leaving groups. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3423-3425.	2.2	7

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73	Effect of the nonleaving groups on the cellular uptake and cytotoxicity of platinum-acridine anticancer agents. Inorganica Chimica Acta, 2019, 492, 150-155.	2.4	7
74	Guanine binding of a cytotoxic platinumâ€“acridin-9-ylthiourea conjugate monitored by 1-D 1H and 2-D [1H,15N] NMR spectroscopy: Hydrolysis is not the rate-determining step. Journal of Inorganic Biochemistry, 2006, 100, 972-979.	3.5	5
75	Unexpected assembly of a novel triply bridged diiron(II) core by a bidentate Schiff base ligand. Inorganica Chimica Acta, 2007, 360, 2824-2828.	2.4	5
76	Au-ACRAMTU-PEt3 Alters Redox Balance To Inhibit T Cell Proliferation and Function. Journal of Immunology, 2015, 195, 1984-1994.	0.8	5
77	Evaluation of a Platinumâ€“Acridine Anticancer Agent and Its Liposomal Formulation in an in vivo Model of Lung Adenocarcinoma. ChemMedChem, 2021, 16, 412-419.	3.2	5
78	DNA Adduct Detection after Postâ€Łabeling Technique with PCR Amplification (DNAâ€ADAPTâ€“qPCR) Identifies the Preâ€ribosomal RNA Gene as a Direct Target of Platinumâ€“Acridine Anticancer Agents. Chemistry - A European Journal, 2021, 27, 14681-14689.	3.3	4
79	Computational and Experimental Characterization of rDNA and rRNA G-Quadruplexes. Journal of Physical Chemistry B, 2022, 126, 609-619.	2.6	4
80	Discovery of a Chiral DNAâ€Targeted Platinumâ€“Acridine Agent with Potent Enantioselective Anticancer Activity. Angewandte Chemie, 2020, 132, 22149-22154.	2.0	2