Genevieve Pratviel

List of Publications by Year
in descending order

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56 papers	2,615 citations	236912 25 h-index	182417 51 g-index
58 all docs	58 docs citations	58 times ranked	2607 citing authors

#	Article	IF	Citations
1	DNA And RNA Cleavage by Metal Complexes. Advances in Inorganic Chemistry, 1998, , 251-312.	1.0	326
2	Potassium monopersulfate and a water-soluble manganese porphyrin complex, [Mn(TMPyP)](OAc)5, as an efficient reagent for the oxidative cleavage of DNA. Biochemistry, 1989, 28, 7268-7275.	2.5	308
3	A G-Quadruplex Ligand with 10000-Fold Selectivity over Duplex DNA. Journal of the American Chemical Society, 2007, 129, 1502-1503.	13.7	188
4	Activation of DNA Carbonâ^'Hydrogen Bonds by Metal Complexes. Chemical Reviews, 2010, 110, 1018-1059.	47.7	147
5	Guanine Oxidation: One- and Two-Electron Reactions. Chemistry - A European Journal, 2006, 12, 6018-6030.	3.3	143
6	Porphyrin Derivatives for Telomere Binding and Telomerase Inhibition. ChemBioChem, 2005, 6, 123-132.	2.6	120
7	Efficient Oxidation of 2â€˜-Deoxyguanosine by Mn-TMPyP/KHSO5to Imidazolone dIz without Formation of 8-Oxo-dG. Journal of the American Chemical Society, 1998, 120, 11548-11553.	13.7	91
8	Guanine Oxidation in Double-Stranded DNA by Mn-TMPyP/KHSO5:â€‰ 5,8-Dihydroxy-7,8-dihydroguanine Residue as a Key Precursor of Imidazolone and Parabanic Acid Derivatives. Journal of the American Chemical Society, 2000, 122, 2157-2167.	13.7	87
9	Furfural as a Marker of DNA Cleavage by Hydroxylation at the 5â€² Carbon of Deoxyribose. Angewandte Chemie International Edition in English, 1991, 30, 702-704.	4.4	81
10	Improvement of porphyrins for G-quadruplex DNA targeting. Biochimie, 2011, 93, 1310-1317.	2.6	76
11	Structure/Nuclease Activity Relationships of DNA Cleavers Based on Cationic Metalloporphyrinâ^'Oligonucleotide Conjugates. Biochemistry, 1996, 35, 9140-9149.	2.5	69
12	Porphyrins in complex with DNA: Modes of interaction and oxidation reactions. Coordination Chemistry Reviews, 2016, 308, 460-477.	18.8	61
13	Nonenzymic cleavage and ligation of DNA at a three A.cntdot.T base pair site. A two-step pseudohydrolysis of DNA. Journal of the American Chemical Society, 1993, 115, 7939-7943.	13.7	56
14	Oxidative Damage Generated by an Oxo-Metalloporphyrin onto the Human Telomeric Sequenceâ€. Biochemistry, 2000, 39, 9514-9522.	2.5	52
15	Hydroxylation, Epoxidation, and DNA Cleavage Reactions Mediated by the Biomimetic Mn-TMPyP/O2/Sulfite Oxidation Systemâ€. Inorganic Chemistry, 1999, 38, 4123-4127.	4.0	47
16	DNA Oxidation by Copper and Manganese Complexes. Advances in Inorganic Chemistry, 2006, 58, 77-130.	1.0	47
17	Guanine Oxidation: NMR Characterization of a Dehydro-guanidinohydantoin Residue Generated by a 2e-oxidation of d(GpT). Journal of the American Chemical Society, 2001, 123, 5867-5877.	13.7	43
18	SARS-CoV-2 Nsp3 unique domain SUD interacts with guanine quadruplexes and G4-ligands inhibit this interaction. Nucleic Acids Research, 2021, 49, 7695-7712.	14.5	43

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19	Interaction of Cationic Nickel and Manganese Porphyrins with the Minor Groove of DNA. Inorganic Chemistry, 2010, 49, 8558-8567.	4.0	42
20	Cobalt(<scp>iii</scp>)porphyrin to target G-quadruplex DNA. Dalton Transactions, 2015, 44, 3701-3707.	3.3	35
21	Guanine Oxidation by Electron Transfer: One- versus Two-Electron Oxidation Mechanism. ChemBioChem, 2006, 7, 125-133.	2.6	31
22	Characterization of the Dehydro-Guanidinohydantoin Oxidation Product of Guanine in a Dinucleotide. Chemical Research in Toxicology, 2002, 15, 1643-1651.	3.3	30
23	Surface plasmon resonance imaging (SPRi) as an alternative technique for rapid and quantitative screening of small molecules, useful in drug discovery. Sensors and Actuators B: Chemical, 2011, 157, 304-309.	7.8	28
24	Spontaneous Reduction of Mixed 2,2â€²-Bipyridine/Methylamine/Chloro Complexes of PtIV in Water in the Presence of Light Is Accompanied by Complex Isomerization, Loss of Methylamine, and Formation of a Strong Oxidant, Presumably HOCl. Chemistry - A European Journal, 2007, 13, 3980-3988.	3.3	27
25	Concept for Simultaneous and Specific in Situ Monitoring of Amyloid Oligomers and Fibrils via FÃ¶rster Resonance Energy Transfer. Analytical Chemistry, 2014, 86, 11877-11882.	6.5	26
26	A thienoquinoxaline and a styryl-quinoxaline as new fluorescent probes for amyloid-Î² fibrils. Comptes Rendus Chimie, 2012, 15, 79-85.	0.5	25
27	Interaction of Cationic Manganese Porphyrin with Gâ€Quadruplex Nucleic Acids Probed by Differential Labeling of the Two Faces of the Porphyrin. Angewandte Chemie - International Edition, 2013, 52, 2185-2188.	13.8	25
28	The nickel(II) complex of guanidinium phenyl porphyrin, a specific G-quadruplex ligand, targets telomeres and leads to POT1 mislocalization in culture cells. Journal of Biological Inorganic Chemistry, 2015, 20, 729-738.	2.6	24
29	Smart metallopoly(<scp>l</scp>-glutamic acid) polymers: reversible helix-to-coil transition at neutral pH. RSC Advances, 2016, 6, 84694-84697.	3.6	24
30	Nucleopolypeptides with DNA-triggered Î± helix-to-Î² sheet transition. Chemical Communications, 2017, 53, 7501-7504.	4.1	24
31	Oxidative DNA Damage Mediated by Transition Metal Ions and Their Complexes. Metal Ions in Life Sciences, 2012, 10, 201-216.	2.8	23
32	DNA cleavage by a â€˜metalloporphyrin-spermine-oligonucleotideâ€™ molecule. Journal of the Chemical Society Chemical Communications, 1995, , 181-182.	2.0	21
33	Synthesis and DNA cleavage of 2â€²-O-amino-linked metalloporphyrinâ€“oligonucleotide conjugates. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 3088-3095.	1.3	20
34	Combination of photodynamic therapy and gene silencing achieved through the hierarchical self-assembly of porphyrin-siRNA complexes. International Journal of Pharmaceutics, 2019, 569, 118585.	5.2	20
35	Characterization of an oxaluric acid derivative as a guanine oxidation product. Chemical Communications, 2001, , 2116-2117.	4.1	17
36	Ionic Polypeptide Polymers with Unusual Î²-Sheet Stability. Biomacromolecules, 2018, 19, 4068-4074.	5.4	17

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37	Mapping and characterization of G-quadruplexes in the genome of the social amoeba Dictyostelium discoideum. Nucleic Acids Research, 2019, 47, 4363-4374.	14.5	17
38	Cd²⁺ coordination: an efficient structuring switch for polypeptide polymers. Polymer Chemistry, 2018, 9, 4100-4107.	3.9	16
39	Use of Short Duplexes for the Analysis of the Sequence-Dependent Cleavage of DNA by a Chemical Nuclease, a Manganese Porphyrin. ChemBioChem, 2005, 6, 2326-2335.	2.6	15
40	Binding of metalloporphyrins to G-quadruplex DNA: The role of the central metal. Inorganica Chimica Acta, 2016, 452, 98-103.	2.4	15
41	G-Quadruplex binding optimization by gold(<scp>iii</scp>) insertion into the center of a porphyrin. Dalton Transactions, 2019, 48, 6091-6099.	3.3	14
42	Long-range charge transport through double-stranded DNA mediated by manganese or iron porphyrins. Journal of Biological Inorganic Chemistry, 2008, 13, 973-979.	2.6	13
43	Smart Poly(imidazoyl-l-lysine): Synthesis and Reversible Helix-to-Coil Transition at Neutral pH. Polymers, 2017, 9, 276.	4.5	12
44	Photolysis and Thermolysis of Platinum(IV) 2,2â€²â€Bipyridine Complexes Lead to Identical Platinum(II)â€“DNA Adducts. Chemistry - A European Journal, 2010, 16, 11420-11431.	3.3	11
45	A Single Nuclease-Resistant Linkage in DNA as a Versatile Tool for the Characterization of DNA Lesions: Application to the Guanine Oxidative Lesion â€œG+34â€•Generated by Metalloporphyrin/KHSO5 Reagent. Chemical Research in Toxicology, 2012, 25, 2505-2512.	3.3	10
46	Formation of the carboxamidine precursor of cyanuric acid from guanine oxidative lesion dehydro-guanidinohydantoin. Bioorganic and Medicinal Chemistry, 2014, 22, 4711-4716.	3.0	9
47	Guanosine in a Single Stranded Region of Anticodon Stemâ€“Loop tRNA Models is Prone to Oxidatively Generated Damage Resulting in Dehydroguanidinohydantoin and Spiroiminodihydantoin Lesions. Chemistry - A European Journal, 2015, 21, 6381-6385.	3.3	8
48	The protonation state of trans axial water molecule switches: the reactivity of high-valent manganese-oxo porphyrin. New Journal of Chemistry, 2013, 37, 3581.	2.8	6
49	Cationic Porphyrinâ€“Anionic Surfactant Mixtures for the Promotion of Selfâ€Organized 1:4 Ion Pairs in Water with Strong Aggregation Properties. ChemPhysChem, 2015, 16, 3877-3885.	2.1	6
50	Gold(III) porphyrins: Synthesis and interaction with G-quadruplex DNA. Journal of Inorganic Biochemistry, 2021, 223, 111551.	3.5	6
51	The pK_a value of the proximal water molecule trans to a high-valent Mn^Vî€Œ porphyrin: towards the control of reactivity by pH. Dalton Transactions, 2017, 46, 12088-12094.	3.3	2
52	Oxidation of 5-methylaminomethyl uridine (mnm5U) by Oxone Leads to Aldonitrone Derivatives. Biomolecules, 2018, 8, 145.	4.0	2
53	Voltammetric studies of selected porphyrin G-quadruplex ligands and their interaction with DNA in solution and at the mercury electrode surface. Electrochimica Acta, 2021, 394, 139151.	5.2	2
54	A benzimidazopyridoquinoxaline as promising scaffold for G-quadruplex DNA targeting. Medicinal Chemistry Research, 2014, 23, 4042-4049.	2.4	1

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55	Synthesis of asymmetric guanidiniumphenyl-aminophenyl porphyrins. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1438-1443.	0.8	1
56	Nâ€²-(3-Sulfanylidene-3,4-dihydroquinoxalin-2-yl)benzohydrazide dimethylformamide monosolvate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1268-o1268.	0.2	0