

# Genevieve Pratviel

## List of Publications by Citations

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57  
papers

2,290  
citations

23  
h-index

47  
g-index

58  
ext. papers

2,435  
ext. citations

7.6  
avg, IF

4.83  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 57 | Potassium monopersulfate and a water-soluble manganese porphyrin complex, [Mn(TMPyP)](OAc) <sub>5</sub> , as an efficient reagent for the oxidative cleavage of DNA. <i>Biochemistry</i> , <b>1989</b> , 28, 7268-75   | 3.2  | 286       |
| 56 | DNA And RNA Cleavage by Metal Complexes. <i>Advances in Inorganic Chemistry</i> , <b>1998</b> , 251-312  | 2.1  | 284       |
| 55 | A G-quadruplex ligand with 10000-fold selectivity over duplex DNA. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1502-3   | 16.4 | 176       |
| 54 | Activation of DNA carbon-hydrogen bonds by metal complexes. <i>Chemical Reviews</i> , <b>2010</b> , 110, 1018-59   | 68.1 | 137       |
| 53 | Guanine oxidation: one- and two-electron reactions. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 6018-30  | 4.8  | 132       |
| 52 | Porphyrin derivatives for telomere binding and telomerase inhibition. <i>ChemBioChem</i> , <b>2005</b> , 6, 123-32   | 3.8  | 106       |
| 51 | Efficient Oxidation of 2-Deoxyguanosine by Mn-TMPyP/KHSO <sub>5</sub> to Imidazolone dz without Formation of 8-Oxo-dG. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 11548-11553  | 16.4 | 84        |
| 50 | Furfural as a Marker of DNA Cleavage by Hydroxylation at the 5' Carbon of Deoxyribose. <i>Angewandte Chemie International Edition in English</i> , <b>1991</b> , 30, 702-704   |      | 81        |
| 49 | Guanine Oxidation in Double-Stranded DNA by Mn-TMPyP/KHSO <sub>5</sub> : 5,8-Dihydroxy-7,8-dihydroguanine Residue as a Key Precursor of Imidazolone and Parabanic Acid Derivatives. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2157-2167 | 16.4 | 80        |
| 48 | Improvement of porphyrins for G-quadruplex DNA targeting. <i>Biochimie</i> , <b>2011</b> , 93, 1310-7  | 4.6  | 70        |
| 47 | Structure/nuclease activity relationships of DNA cleavers based on cationic metalloporphyrin-oligonucleotide conjugates. <i>Biochemistry</i> , <b>1996</b> , 35, 9140-9  | 3.2  | 61        |
| 46 | Oxidative damage generated by an oxo-metalloporphyrin onto the human telomeric sequence. <i>Biochemistry</i> , <b>2000</b> , 39, 9514-22   | 3.2  | 50        |
| 45 | Nonenzymic cleavage and ligation of DNA at a three A.cntdot.T base pair site. A two-step pseudohydrolysis of DNA. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 7939-7943   | 16.4 | 48        |
| 44 | Porphyrins in complex with DNA: Modes of interaction and oxidation reactions. <i>Coordination Chemistry Reviews</i> , <b>2016</b> , 308, 460-477   | 23.2 | 44        |
| 43 | DNA Oxidation by Copper and Manganese Complexes. <i>Advances in Inorganic Chemistry</i> , <b>2006</b> , 58, 77-130   | 2.1  | 43        |
| 42 | Guanine oxidation: NMR characterization of a dehydro-guanidinohydantoin residue generated by a 2e-oxidation of d(GpT). <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5867-77  | 16.4 | 38        |
| 41 | Hydroxylation, Epoxidation, and DNA Cleavage Reactions Mediated by the Biomimetic Mn-TMPyP/O <sub>2</sub> /Sulfite Oxidation System <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 4123-4127   | 5.1  | 38        |

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|----|--|------|----|
| 40 | Interaction of cationic nickel and manganese porphyrins with the minor groove of DNA. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 8558-67   | 5.1  | 35 |
| 39 | Guanine oxidation by electron transfer: one- versus two-electron oxidation mechanism. <i>ChemBioChem</i> , <b>2006</b> , 7, 125-33   | 3.8  | 30 |
| 38 | Characterization of the dehydro-guanidinohydantoin oxidation product of guanine in a dinucleotide. <i>Chemical Research in Toxicology</i> , <b>2002</b> , 15, 1643-51  | 4    | 28 |
| 37 | Cobalt(III)porphyrin to target G-quadruplex DNA. <i>Dalton Transactions</i> , <b>2015</b> , 44, 3701-7   | 4.3  | 27 |
| 36 | Spontaneous reduction of mixed 2,2'-bipyridine/methylamine/chloro complexes of Pt(IV) in water in the presence of light is accompanied by complex isomerization, loss of methylamine, and formation of a strong oxidant, presumably HOCl. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 3980-8 | 4.8  | 24 |
| 35 | Interaction of cationic manganese porphyrin with G-quadruplex nucleic acids probed by differential labeling of the two faces of the porphyrin. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2185-8   | 16.4 | 23 |
| 34 | The nickel(II) complex of guanidinium phenyl porphyrin, a specific G-quadruplex ligand, targets telomeres and leads to POT1 mislocalization in culture cells. <i>Journal of Biological Inorganic Chemistry</i> , <b>2015</b> , 20, 729-38  | 3.7  | 22 |
| 33 | Surface plasmon resonance imaging (SPRI) as an alternative technique for rapid and quantitative screening of small molecules, useful in drug discovery. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 157, 304-309  | 8.5  | 21 |
| 32 | Smart metallopoly(L-glutamic acid) polymers: reversible helix-to-coil transition at neutral pH. <i>RSC Advances</i> , <b>2016</b> , 6, 84694-84697   | 3.7  | 20 |
| 31 | Concept for simultaneous and specific in situ monitoring of amyloid oligomers and fibrils via Förster resonance energy transfer. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11877-82  | 7.8  | 20 |
| 30 | Synthesis and DNA cleavage of 2'-O-amino-linked metalloporphyrin-oligonucleotide conjugates. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , <b>2000</b> , 3088-3095   |      | 20 |
| 29 | DNA cleavage by a metalloporphyrin-spermine-oligonucleotide molecule. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 181-182   |      | 20 |
| 28 | A thienoquinoxaline and a styryl-quinoxaline as new fluorescent probes for amyloid fibrils. <i>Comptes Rendus Chimie</i> , <b>2012</b> , 15, 79-85   | 2.7  | 19 |
| 27 | Oxidative DNA damage mediated by transition metal ions and their complexes. <i>Metal Ions in Life Sciences</i> , <b>2012</b> , 10, 201-16  | 2.6  | 19 |
| 26 | Nucleopolypeptides with DNA-triggered helix-to-sheet transition. <i>Chemical Communications</i> , <b>2017</b> , 53, 7501-7504  | 5.8  | 18 |
| 25 | Characterization of an oxaluric acid derivative as a guanine oxidation product. <i>Chemical Communications</i> , <b>2001</b> , 2116-7  | 5.8  | 17 |
| 24 | Combination of photodynamic therapy and gene silencing achieved through the hierarchical self-assembly of porphyrin-siRNA complexes. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 569, 118585   | 6.5  | 15 |
| 23 | Binding of metalloporphyrins to G-quadruplex DNA: The role of the central metal. <i>Inorganica Chimica Acta</i> , <b>2016</b> , 452, 98-103  | 2.7  | 13 |

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|----|--|------|----|
| 22 | SARS-CoV-2 Nsp3 unique domain SUD interacts with guanine quadruplexes and G4-ligands inhibit this interaction. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 7695-7712   | 20.1 | 12 |
| 21 | G-Quadruplex binding optimization by gold(III) insertion into the center of a porphyrin. <i>Dalton Transactions</i> , <b>2019</b> , 48, 6091-6099  | 4.3  | 11 |
| 20 | Smart Poly(imidazolyl-L-lysine): Synthesis and Reversible Helix-to-Coil Transition at Neutral pH. <i>Polymers</i> , <b>2017</b> , 9,   | 4.5  | 11 |
| 19 | Cd <sup>2+</sup> coordination: an efficient structuring switch for polypeptide polymers. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 4100-4107   | 4.9  | 11 |
| 18 | Long-range charge transport through double-stranded DNA mediated by manganese or iron porphyrins. <i>Journal of Biological Inorganic Chemistry</i> , <b>2008</b> , 13, 973-9   | 3.7  | 11 |
| 17 | Use of short duplexes for the analysis of the sequence-dependent cleavage of DNA by a chemical nuclease, a manganese porphyrin. <i>ChemBioChem</i> , <b>2005</b> , 6, 2326-35  | 3.8  | 11 |
| 16 | Ionic Polypeptide Polymers with Unusual $\beta$ -Sheet Stability. <i>Biomacromolecules</i> , <b>2018</b> , 19, 4068-4074   | 6.9  | 11 |
| 15 | Mapping and characterization of G-quadruplexes in the genome of the social amoeba <i>Dictyostelium discoideum</i> . <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 4363-4374  | 20.1 | 10 |
| 14 | A single nuclease-resistant linkage in DNA as a versatile tool for the characterization of DNA lesions: application to the guanine oxidative lesion "G+34" generated by metalloporphyrin/KHSO <sub>5</sub> reagent. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 2505-12 | 4    | 10 |
| 13 | Photolysis and thermolysis of platinum(IV) 2,2'-bipyridine complexes lead to identical platinum(II)-DNA adducts. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 11420-31  | 4.8  | 10 |
| 12 | Guanosine in a single stranded region of anticodon stem-loop tRNA models is prone to oxidatively generated damage resulting in dehydroguanidinohydantoin and spiroiminodihydantoin lesions. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 6381-5                           | 4.8  | 8  |
| 11 | Interaction of Cationic Manganese Porphyrin with G-Quadruplex Nucleic Acids Probed by Differential Labeling of the Two Faces of the Porphyrin. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2241-2244   | 3.6  | 5  |
| 10 | Cationic Porphyrin-Anionic Surfactant Mixtures for the Promotion of Self-Organized 1:4 Ion Pairs in Water with Strong Aggregation Properties. <i>ChemPhysChem</i> , <b>2015</b> , 16, 3877-85  | 3.2  | 5  |
| 9  | The protonation state of trans axial water molecule switches: the reactivity of high-valent manganese-oxo porphyrin. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 3581  | 3.6  | 5  |
| 8  | Formation of the carboxamide precursor of cyanuric acid from guanine oxidative lesion dehydro-guanidinohydantoin. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 4711-6   | 3.4  | 3  |
| 7  | Oxidation of 5-methylaminomethyl uridine (mnm <sup>5</sup> ) by Oxone Leads to Aldonitrone Derivatives. <i>Biomolecules</i> , <b>2018</b> , 8,   | 5.9  | 2  |
| 6  | Gold(III) porphyrins: Synthesis and interaction with G-quadruplex DNA. <i>Journal of Inorganic Biochemistry</i> , <b>2021</b> , 223, 111551  | 4.2  | 2  |
| 5  | A benzimidazopyridoquinoxaline as promising scaffold for G-quadruplex DNA targeting. <i>Medicinal Chemistry Research</i> , <b>2014</b> , 23, 4042-4049   | 2.2  | 1  |

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| 4 | The pK value of the proximal water molecule trans to a high-valent Mn[double bond, length as m-dash]O porphyrin: towards the control of reactivity by pH. <i>Dalton Transactions</i> , <b>2017</b> , 46, 12088-12094 | 4.3 | 1 |
| 3 | Synthesis of asymmetric guanidiniumphenyl-aminophenyl porphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2016</b> , 20, 1438-1443   | 1.8 | 1 |
| 2 | Voltammetric studies of selected porphyrin G-quadruplex ligands and their interaction with DNA in solution and at the mercury electrode surface. <i>Electrochimica Acta</i> , <b>2021</b> , 394, 139151              | 6.7 | 0 |
| 1 | N'-(3-Sulfanyl-idene-3,4-di-hydro-quinoxalin-2-yl)benzohydrazide di-methyl-formamide monosolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2013</b> , 69, o1268                        |     |   |