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Electrocatalytic oxidation of guanine, guanosine, and guanosine monophosphate

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#	Paper	IF	Citations
37	Co-occurrence of Photochemical and Microbiological Transformation Processes in Open-Water Unit Process Wetlands.		
36	An Overview of Label-free Electrochemical Protein Sensors. <i>Sensors</i> , 2007 , 7, 3442-3458	3.8	130
35	Electron transfer in DNA and in DNA-related biological processes. Electrochemical insights. <i>Chemical Reviews</i> , 2008 , 108, 2622-45	68.1	123
34	. 2009 ,		29
33	Guanosine + OH radical reaction in aqueous solution: a reinterpretation of the UV-vis data based on thermodynamic and kinetic calculations. <i>Organic Letters</i> , 2009 , 11, 5114-7	6.2	88
32	Fluorescent nucleoside analogue displays enhanced emission upon pairing with guanine. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 5053-5	3.9	25
31	Spectral characterization of guanine C4-OH adduct: a radiation and quantum chemical study. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 13650-8	3.4	18
30	Electrochemical behaviors of GMP based on solid-phase extraction on at Cu-Mg-Al hydrotalcite-like compound (HTLC) modified glass carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 1253-1261	2.6	7
29	Electrocatalysis Oxidation of GMP Based on Layered Double Hydroxide Functionalized with Anionic Surfactant and Room Temperature Ionic Liquid Modified Glassy Carbon Electrode. <i>Chinese Journal of Chemistry</i> , 2011 , 29, 829-834	4.9	2
28	Electrochemistry of nucleic acids. <i>Chemical Reviews</i> , 2012 , 112, 3427-81	68.1	521
27	Visualizing the quadruplex: from fluorescent ligands to light-up probes. <i>Topics in Current Chemistry</i> , 2013 , 330, 111-77		102
26	Theoretical Determination of One-Electron Oxidation Potentials for Nucleic Acid Bases. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 5107-23	6.4	63
25	Electrochemical determination of guanosine 5'-monophosphate using the electropolymerized film of non-peripheral amine substituted nickel(II) phthalocyanine modified electrode. <i>Electrochimica Acta</i> , 2013 , 95, 246-250	6.7	9
24	Influence of chemical oxidation upon the electro-catalytic properties of graphene-gold nanoparticle composite. <i>Electrochimica Acta</i> , 2013 , 91, 137-143	6.7	16
23	EPR spectroelectrochemical investigation of guanine radical formation and environment effects. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 2360-5	3.4	7
22	In depth analysis of the quenching of three fluorene-phenylene-based cationic conjugated polyelectrolytes by DNA and DNA bases. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 460-9	3.4	10
21	From Cyclen to 12-Crown-4 Copper(II) Complexes: Exchange of Donor Atoms Improves DNA Cleavage Activity. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 4722-4730	2.3	9

20	Photo-electrochemical Bioanalysis of Guanosine Monophosphate Using Coupled Enzymatic Reactions at a CdS/ZnS Quantum Dot Electrode. <i>Small</i> , 2015 , 11, 5844-50	11	29
19	Electrochemical behavior and determination of guanosine-5'-monophosphate on a ionic liquid modified carbon electrode. <i>Journal of Analytical Chemistry</i> , 2015 , 70, 186-192	1.1	3
18	Guanosine radical reactivity explored by pulse radiolysis coupled with transient electrochemistry. <i>Chemical Communications</i> , 2015 , 51, 9089-92	5.8	4
17	A bimetallic nanocomposite electrode for direct and rapid biosensing of p53 DNA plasmid. <i>Journal of Chemical Sciences</i> , 2015 , 127, 1607-1617	1.8	15
16	Calculations of pKa's and redox potentials of nucleobases with explicit waters and polarizable continuum solvation. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 5134-44	2.8	97
15	Engineering of supramolecular photoactive protein architectures: the defined co-assembly of photosystem I and cytochrome c using a nanoscaled DNA-matrix. <i>Nanoscale</i> , 2016 , 8, 10695-705	7.7	48
14	Dual mode of cell death upon the photo-irradiation of a Ru polypyridyl complex in interphase or mitosis. <i>Chemical Science</i> , 2016 , 7, 6115-6124	9.4	62
13	Platinum anti-cancer drugs: Free radical mechanism of Pt-DNA adduct formation and anti-neoplastic effect. <i>Free Radical Biology and Medicine</i> , 2016 , 95, 216-29	7.8	35
12	Peroxynitrite Formation and Detection in Living Cells. 2017 , 271-288		3
11	Purine Functional Group Type and Placement Modulate the Interaction with Carbon-Fiber Microelectrodes. <i>ACS Sensors</i> , 2019 , 4, 479-487	9.2	15
10	Near-IR light-induced photorelease of nitric oxide (NO) on ruthenium nitrosyl complexes: formation, reactivity, and biological effects. <i>Dalton Transactions</i> , 2020 , 49, 10772-10785	4.3	18
9	Forty Years after the Discovery of Its Nucleolytic Activity: [Cu(phen)] Shows Unattended DNA Cleavage Activity upon Fluorination. <i>Chemistry - A European Journal</i> , 2021 , 27, 3273-3277	4.8	6
8	Tackling a Curious Case: Generation of Charge-Tagged Guanosine Radicals by Gas-Phase Electron Transfer and Their Characterization by UV-vis Photodissociation Action Spectroscopy and Theory. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 772-785	3.5	3
7	Electron transfer from guanosine to the lowest triplet excited state of 4-nitroindole through hydrogen-bonded complex. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 408, 113106	4.7	1
6	DiFluoroalkylamine as a Motif for Singlet Oxygen-Mediated Proximity Labeling in Living Cells. <i>Organic Letters</i> , 2021 , 23, 4640-4644	6.2	0
5	Copper oxide/peroxydisulfate system for urban wastewater disinfection: Performances, reactive species, and antibiotic resistance genes removal. <i>Science of the Total Environment</i> , 2022 , 806, 150768	10.2	1
4	The Effects of Potential and pH on the Adsorption of Guanine on the Au(111) Electrode.. <i>Langmuir</i> , 2022 ,	4	1
3	Computation of Oxidation Potentials of Solvated Nucleobases by Static and Dynamic Multilayer Approaches. <i>Journal of Chemical Information and Modeling</i> ,	6.1	1

- 2 An electrochemical sensor based on [Ru(bpy)₂dpp]²⁺/SMWCNTs/Au modified glassy carbon electrode for the detection of 5'-GMP. **2022**, 65, ○
- 1 Design fabrication of electrochemical sensor based on Ru(bpy)₂²⁺/SMWCNTs/Au/GCE electrode for the selective determination of 5'-guanosine monophosphate. **2023**, 418, 135841 ○