

Agata Kowalczyk

List of Publications by Year in descending order

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44
papers

716
citations

471371

17
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552653

26
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45
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times ranked

1114
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanogravimetric and voltammetric DNA-hybridization biosensors for studies of DNA damage by common toxicants and pollutants. <i>Biophysical Chemistry</i> , 2010, 146, 42-53.	1.5	50
2	Orientation of Laccase on Charged Surfaces. Mediatorless Oxygen Reduction on Amino- and Carboxyl-Ended Ethylphenyl Groups. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25911-25918.	1.5	49
3	A novel type of electrochemical sensor based on ferromagnetic carbon-encapsulated iron nanoparticles for direct determination of hemoglobin in blood samples. <i>Biosensors and Bioelectronics</i> , 2015, 64, 554-559.	5.3	48
4	New strategy for the gene mutation identification using surface enhanced Raman spectroscopy (SERS). <i>Biosensors and Bioelectronics</i> , 2019, 132, 326-332.	5.3	40
5	Progress in Targeting Tumor Cells by Using Drug-Magnetic Nanoparticles Conjugate. <i>Biomacromolecules</i> , 2013, 14, 828-833.	2.6	36
6	Improved cytotoxicity and preserved level of cell death induced in colon cancer cells by doxorubicin after its conjugation with iron-oxide magnetic nanoparticles. <i>Toxicology in Vitro</i> , 2016, 33, 45-53.	1.1	36
7	Influence of a Magnetic Nanoparticle As a Drug Carrier on the Activity of Anticancer Drugs: Interactions of Double Stranded DNA and Doxorubicin Modified with a Carrier. <i>Analytical Chemistry</i> , 2009, 81, 7474-7483.	3.2	30
8	New Unsymmetrical Bisacridine Derivatives Noncovalently Attached to Quaternary Quantum Dots Improve Cancer Therapy by Enhancing Cytotoxicity toward Cancer Cells and Protecting Normal Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17276-17289.	4.0	29
9	New Anthraquinone Derivatives as Electrochemical Redox Indicators for the Visualization of the DNA Hybridization Process. <i>Electroanalysis</i> , 2010, 22, 49-59.	1.5	28
10	Construction of DNA biosensor at glassy carbon surface modified with 4-aminoethylbenzenediazonium salt. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2506-2512.	5.3	28
11	Hydrogel with chains functionalized with carboxyl groups as universal 3D platform in DNA biosensors. <i>Biosensors and Bioelectronics</i> , 2014, 54, 222-228.	5.3	28
12	Oxidation of DNA Followed by Conformational Change after OH Radical Attack. <i>Analytical Chemistry</i> , 2013, 85, 355-361.	3.2	26
13	A dual DNA biosensor based on two redox couples with a hydrogel sensing platform functionalized with carboxyl groups and gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 220-227.	4.0	23
14	Occlusion phenomenon of redox probe by protein as a way of voltammetric detection of non-electroactive C-reactive protein. <i>Biosensors and Bioelectronics</i> , 2018, 117, 232-239.	5.3	23
15	Selective and sensitive electrochemical device for direct VB2 determination in real products. <i>Talanta</i> , 2017, 163, 72-77.	2.9	20
16	Tris(ferrocenylmethidene)sumanene: synthesis, photophysical properties and applications for efficient caesium cation recognition in water. <i>Dalton Transactions</i> , 2020, 49, 9965-9971.	1.6	20
17	Carbon-encapsulated iron nanoparticles as ferromagnetic matrix for oxygen reduction in absence and presence of immobilized laccase. <i>Electrochimica Acta</i> , 2014, 126, 115-121.	2.6	18
18	Tight and Uniform Layer of Covalently Bound Aminoethylphenyl Groups Perpendicular to Gold Surface for Attachment of Biomolecules. <i>Analytical Chemistry</i> , 2011, 83, 9281-9288.	3.2	17

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19	Conformational control of human transferrin covalently anchored to carbon-coated iron nanoparticles in presence of a magnetic field. <i>Acta Biomaterialia</i> , 2016, 45, 367-374.	4.1	15
20	Stable nanoconjugates of transferrin with alloyed quaternary nanocrystals Ag ⁺ In ⁺ Zn ⁺ S as a biological entity for tumor recognition. <i>Nanoscale</i> , 2018, 10, 1286-1296.	2.8	15
21	Folate-Targeting Quantum Dots- β -Cyclodextrin Nanocarrier for Efficient Delivery of Unsymmetrical Bisacridines to Lung and Prostate Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1261.	1.8	15
22	Carbon-encapsulated iron nanoparticles used to generate magnetic field and to enhance substrate transport at electrode surface. <i>Electrochemistry Communications</i> , 2012, 20, 4-6.	2.3	12
23	Application of mercury ²⁺ -mediated thymine ³ -base pairs for successful voltammetric detection of HPV 18. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 810-816.	4.0	10
24	Enantioselective sensing of (S)-Thalidomide in blood plasma with a chiral naphthalene diimide derivative. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112446.	5.3	10
25	Ferrocene-pyrene conjugates for detection of various monovalent anions in solution. <i>Analytica Chimica Acta</i> , 2020, 1108, 10-20.	2.6	9
26	Enzymatic cleavage of specific dipeptide conjugated with ferrocene as a flexible ultra-sensitive and fast voltammetric assay of matrix metalloproteinase-9 considered a prognostic cancer biomarker in plasma samples. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113653.	5.3	9
27	Electrografting of carboxyphenyl thin layer onto gold for DNA and enzyme immobilization. <i>Electrochimica Acta</i> , 2014, 126, 11-18.	2.6	7
28	Novel electrogravimetric biosensors for the ultrasensitive detection of plasma matrix metalloproteinase-2 considered a potential tumor biomarker. <i>Analytica Chimica Acta</i> , 2022, 1191, 339290.	2.6	7
29	Changes in Performance of DNA Biosensor Caused by Hydroxyl Radicals. <i>Electroanalysis</i> , 2011, 23, 55-62.	1.5	6
30	Formation of Intermediate Layers for Immobilization of Biomacromolecules by Self-Assembling and Reduction of Phenyl diazonium Salts. A Comparative Study. <i>Electroanalysis</i> , 2012, 24, 2053-2060.	1.5	6
31	Boronate-appended polymers with diol-functionalized ferrocene: an effective and selective method for voltammetric glucose sensing. <i>Dalton Transactions</i> , 2021, 50, 880-889.	1.6	6
32	Metabolic Profiles of New Unsymmetrical Bisacridine Antitumor Agents in Electrochemical and Enzymatic Noncellular Systems and in Tumor Cells. <i>Pharmaceuticals</i> , 2021, 14, 317.	1.7	6
33	Substantial Influence of Temperature on Anchoring of Gold Nanoparticle Monolayer for Performance of DNA Biosensors. <i>Electroanalysis</i> , 2010, 22, 2323-2329.	1.5	5
34	Thermoresponsive polymeric gel as a medium for examining interactions between dsDNA and an anticancer drug. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 463-469.	1.9	4
35	Changes in the volume phase transition temperature of hydrogels for detection of the DNA hybridization process. <i>Analyst</i> , 2016, 141, 5815-5821.	1.7	4
36	Proteins and peptides voltammetry: Trends, potential, and limitations. <i>Current Opinion in Electrochemistry</i> , 2019, 14, 44-52.	2.5	4

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37	Synthesis and structural, electrochemical and photophysical studies of triferrocenyl-substituted 1,3,5-triphenylbenzene: a cyan-light emitting molecule showing aggregation-induced enhanced emission. Dalton Transactions, 2020, 49, 14807-14814.	1.6	4
38	Controlled Drug Release and Cytotoxicity Studies of Beta-Lapachone and Doxorubicin Loaded into Cyclodextrins Attached to a Polyethyleneimine Matrix. International Journal of Molecular Sciences, 2020, 21, 5832.	1.8	4
39	Ferrocenylated 1,3,5-triphenylbenzenes for the electrochemical detection of various cations or anions. Dalton Transactions, 2021, 50, 8426-8433.	1.6	4
40	New ferromagnetic mesh electrode material for electroanalytical applications. Electrochemistry Communications, 2017, 77, 124-127.	2.3	3
41	Ethanol vs. water: influence of the terminal functional group of the alkyl chain and environment of the self-assembly process on electron transport through the thiol layer. RSC Advances, 2020, 10, 21582-21592.	1.7	1
42	Tracking of Glycans Structure and Metallomics Profiles in BRAF Mutated Melanoma Cells Treated with Vemurafenib. International Journal of Molecular Sciences, 2021, 22, 439.	1.8	1
43	DNA Damage by Highly Oxidizing Environmental Pollutants. ACS Symposium Series, 2015, , 279-299.	0.5	0
44	Synthesis, characterization and electrochemical properties of 3-ferrocenylbenzoxaboroles. Journal of Organometallic Chemistry, 2020, 905, 121016.	0.8	0