

Burcu DoÄan-Topal

List of Publications by Year in descending order

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43
papers

957
citations

430442

18
h-index

476904

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43
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43
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times ranked

933
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#	ARTICLE	IF	CITATIONS
1	Multi-walled carbon nanotube modified glassy carbon electrode as a voltammetric nanosensor for the sensitive determination of anti-viral drug valganciclovir in pharmaceuticals. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 841-847.	4.0	81
2	Voltammetric studies on the HIV-1 inhibitory drug Efavirenz: The interaction between dsDNA and drug using electrochemical DNA biosensor and adsorptive stripping voltammetric determination on disposable pencil graphite electrode. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2358-2364.	5.3	74
3	Investigation of anticancer drug lapatinib and its interaction with dsDNA by electrochemical and spectroscopic techniques. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 185-194.	4.0	68
4	Electroanalytical investigation and determination of pefloxacin in pharmaceuticals and serum at boron-doped diamond and glassy carbon electrodes. <i>Talanta</i> , 2008, 74, 1191-1200.	2.9	61
5	Advances in electrochemical DNA biosensors and their interaction mechanism with pharmaceuticals. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 8-26.	1.9	54
6	A novel sensitive electrochemical DNA biosensor for assaying of anticancer drug leuprolide and its adsorptive stripping voltammetric determination. <i>Talanta</i> , 2011, 83, 780-788.	2.9	49
7	Anodic behavior of sertindole and its voltammetric determination in pharmaceuticals and human serum using glassy carbon and boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2009, 54, 1893-1903.	2.6	36
8	Electrochemical investigation of an interaction of the antidepressant drug aripiprazole with original and damaged calf thymus dsDNA. <i>Electrochimica Acta</i> , 2015, 169, 233-240.	2.6	36
9	An Electrochemical Sensor Based on Silver Nanoparticles@Benzalkonium Chloride for the Voltammetric Determination of Antiviral Drug Tenofovir. <i>Electroanalysis</i> , 2018, 30, 943-954.	1.5	33
10	Sensitive voltammetric assay of etoposide using modified glassy carbon electrode with a dispersion of multi-walled carbon nanotube. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2815-2822.	1.2	31
11	Analytical application of polymethylene blue-multiwalled carbon nanotubes modified glassy carbon electrode on anticancer drug irinotecan and determination of its ionization constant value. <i>Talanta</i> , 2013, 115, 911-919.	2.9	30
12	Fully Validated Simultaneous Determination of Bisoprolol Fumarate and Hydrochlorothiazide in Their Dosage Forms Using Different Voltammetric, Chromatographic, and Spectrophotometric Analytical Methods. <i>Journal of AOAC INTERNATIONAL</i> , 2013, 96, 42-51.	0.7	29
13	Electrochemical Investigations of the Anticancer Drug Idarubicin Using Multiwalled Carbon Nanotubes Modified Glassy Carbon and Pyrolytic Graphite Electrodes. <i>Electroanalysis</i> , 2013, 25, 1473-1482.	1.5	28
14	Investigation of Electrochemical Behavior of Lipid Lowering Agent Atorvastatin Calcium in Aqueous Media and its Determination from Pharmaceutical Dosage Forms and Biological Fluids Using Boron-Doped Diamond and Glassy Carbon Electrodes. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 571-582.	0.6	24
15	Electrooxidative behavior and determination of trifluoperazine at multiwalled carbon nanotube-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1059-1066.	1.2	24
16	Electrochemical determination of anticancer drug fulvestrant at dsDNA modified pencil graphite electrode. <i>Electrochimica Acta</i> , 2011, 56, 4433-4438.	2.6	22
17	Electrochemical, spectroscopic and molecular docking studies on the interaction of calcium channel blockers with dsDNA. <i>Bioelectrochemistry</i> , 2019, 127, 12-20.	2.4	21
18	Electroanalytical Studies and Simultaneous Determination of Amlodipine Besylate and Atorvastatine Calcium in Binary Mixtures Using First Derivative of the Ratio of Voltammetric Methods. <i>Electroanalysis</i> , 2009, 21, 2427-2439.	1.5	19

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19	Rod-like CuO nanoparticles/waste masks carbon modified glassy carbon electrode as a voltammetric nanosensor for the sensitive determination of anti-cancer drug pazopanib in biological and pharmaceutical samples. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130109.	4.0	19
20	Simple and highly sensitive assay of axitinib in dosage form and biological samples and its electrochemical behavior on the boron-doped diamond and glassy carbon electrodes. <i>Electrochimica Acta</i> , 2021, 386, 138443.	2.6	15
21	Quantitative Analysis of Irbesartan in Pharmaceuticals and Human Biological Fluids by Voltammetry. <i>Analytical Letters</i> , 2009, 42, 2322-2338.	1.0	14
22	Electrochemical, spectroscopic, and molecular docking studies of the interaction between the anti-retroviral drug indinavir and dsDNA. <i>Journal of Pharmaceutical Analysis</i> , 2020, 10, 473-481.	2.4	14
23	Synthesis, Characterization, Biological Activity and Voltammetric Behavior and Determination of Cefaclor Metal Complexes. <i>Current Analytical Chemistry</i> , 2010, 6, 316-328.	0.6	14
24	The Interaction between DNA and Three Intercalating Anthracyclines Using Electrochemical DNA Nanobiosensor Based on Metal Nanoparticles Modified Screen-Printed Electrode. <i>Micromachines</i> , 2021, 12, 1337.	1.4	14
25	Electrochemical Investigation and Determination of the Antibacterial Loracarbef by Voltammetric Methods. <i>Analytical Letters</i> , 2009, 42, 689-705.	1.0	13
26	Development and Validation of an RP-HPLC Method for Determination of Valganciclovir in Human Serum and Tablets. <i>Chromatographia</i> , 2007, 66, 97-101.	0.7	12
27	Simultaneous Determination of Abacavir, Efavirenz and Valganciclovir in Human Serum Samples by Isocratic HPLC-DAD Detection. <i>Chromatographia</i> , 2007, 66, 25-30.	0.7	12
28	Electrochemical Characterization and Rapid Voltammetric Determination of Riluzole in Pharmaceuticals and Human Serum. <i>Analytical Letters</i> , 2011, 44, 976-990.	1.0	11
29	Effect of monomer structure of anionic surfactant on voltammetric signals of an anticancer drug: rapid, simple, and sensitive electroanalysis of nilotinib in biological samples. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8073-8081.	1.9	11
30	Anodic behaviour of fulvestrant and its voltammetric determination in pharmaceuticals and human serum on highly boron-doped diamond electrode using differential pulse adsorptive stripping voltammetry. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 1253-1260.	1.5	10
31	Investigation of the interaction between anticancer drug ibrutinib and double-stranded DNA by electrochemical and molecular docking techniques. <i>Microchemical Journal</i> , 2022, 180, 107622.	2.3	10
32	Poly(acridine orange)-modified glassy carbon electrodes: electrosynthesis, characterisation and sensor application with uric acid. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 831-840.	1.5	9
33	Quantification of FGFR4 inhibitor BLU-554 in mouse plasma and tissue homogenates using liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1110-1111, 116-123.	1.2	9
34	Sensitive Nucleic Acid Detection at NH ₂ -MWCNTs Modified Glassy Carbon Electrode and its Application for Monitoring of Gemcitabine-DNA Interaction. <i>Electroanalysis</i> , 2020, 32, 912-922.	1.5	9
35	Electrochemical investigation and determination of ceftazidime in pharmaceutical dosage forms and human urine. <i>Journal of Analytical Chemistry</i> , 2014, 69, 899-908.	0.4	8
36	Simultaneous determination of L-dopa and benserazide in binary mixtures using first derivative of the ratio-voltammetric methods based on their oxidation on solid electrode. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 1717-1736.	1.0	6

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37	Electrochemical Determination and in silico Studies of Fludarabine on NH ₂ Functionalized Multiwalled Carbon Nanotube Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2020, 32, 37-49.	1.5	6
38	Effect of Triton X-100 on the Electrochemical Behavior of Hydrophobic Lapatinib Used in the Treatment of Breast Cancer: A First Electroanalytical Study. <i>Journal of the Electrochemical Society</i> , 2021, 168, 076506.	1.3	5
39	Electrochemical Detection of ct-dsDNA on Nanomaterial-modified Carbon Based Electrodes. <i>Current Analytical Chemistry</i> , 2019, 15, 305-312.	0.6	5
40	Detection of DNA damage induced by nanomaterials. , 2018, , 547-577.		4
41	Anodic Voltammetric Behavior and Determination of Rosiglitazone in Pharmaceutical Dosage Forms and Biological Fluids on Solid Electrode. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 694-702.	0.6	3
42	Nano-sized Metal and Metal Oxide Modified Electrodes for Pharmaceuticals Analysis. <i>Current Pharmaceutical Analysis</i> , 2021, 17, 421-436.	0.3	3
43	Detection of Prevented DNA Damage by Therapeutic Foods. , 2018, , 281-309.		1