Abdel Nasser Kawde

List of Publications by Citations

79 papers	4,426 citations	27 h-index	66 g-index
81 ext. papers	4,792 ext. citations	4.6 avg, IF	5.74 L-index

#	Paper	IF	Citations
79	Quantum-dot/aptamer-based ultrasensitive multi-analyte electrochemical biosensor. *Journal of the American Chemical Society*, **2006**, 128, 2228-9	16.4	491
78	Metal nanoparticle-based electrochemical stripping potentiometric detection of DNA hybridization. *Analytical Chemistry*, **2001**, 73, 5576-81	7.8	479
77	Designs, formats and applications of lateral flow assay: A literature review. *Journal of Saudi Chemical Society*, **2015**, 19, 689-705	4.3	422
76	Aptamer biosensor for label-free impedance spectroscopy detection of proteins based on recognition-induced switching of the surface charge. *Chemical Communications*, **2005**, 4267-9	5.8	280
75	Carbon-nanotube-modified glassy carbon electrodes for amplified label-free electrochemical detection of DNA hybridization. *Analyst, The*, **2003**, 128, 912-6	5	273
74	Aptamer-functionalized gold nanoparticles as probes in a dry-reagent strip biosensor for protein analysis. *Analytical Chemistry*, **2009**, 81, 669-75	7.8	257
73	Magnetic bead-based label-free electrochemical detection of DNA hybridization. *Analyst, The*, **2001**, 126, 2020-4	5	179
72	Renewable pencil electrodes for highly sensitive stripping potentiometric measurements of DNA and RNA. *Analyst, The*, **2000**, 125, 5-7	5	169
71	Pencil-based renewable biosensor for label-free electrochemical detection of DNA hybridization. *Analytica Chimica Acta*, **2001**, 431, 219-224	6.6	150
70	Gold nanoparticle-modified graphite pencil electrode for the high-sensitivity detection of hydrazine. *Talanta*, **2013**, 115, 214-21	6.2	122
69	Nanoparticle-based sensing of glycan-lectin interactions. *Journal of the American Chemical Society*, **2006**, 128, 10018-9	16.4	113
68	Amplified Electrical Transduction of DNA Hybridization Based on Polymeric Beads Loaded with Multiple Gold Nanoparticle Tags. *Electroanalysis*, **2004**, 16, 101-107	3	107
67	Label-free bioelectronic detection of aptamer–protein interactions. *Electrochemistry Communications*, **2005**, 7, 537-540	5.1	107
66	Recent Advances in Nanomaterial-Modified Pencil Graphite Electrodes for Electroanalysis. *Electroanalysis*, **2016**, 28, 408-424	3	90
65	Graphite pencil electrodes as electrochemical sensors for environmental analysis: a review of features, developments, and applications. *RSC Advances*, **2016**, 6, 91325-91340	3.7	84
64	Glassy carbon paste electrodes. *Electrochemistry Communications*, **2001**, 3, 203-208	5.1	76
63	Magnetic-field stimulated DNA oxidation. *Electrochemistry Communications*, **2002**, 4, 349-352	5.1	75

62	Amplified label-free electrical detection of DNA hybridization. *Analyst, The*, **2002**, 127, 383-6	5	70
61	Carbon-nanotube-modified electrodes for amplified enzyme-based electrical detection of DNA hybridization. *Biosensors and Bioelectronics*, **2004**, 20, 995-1000	11.8	69
60	Dual enzyme electrochemical coding for detecting DNA hybridization. *Analyst, The*, **2002**, 127, 1279-82	5	53
59	New bipyridine gold(III) dithiocarbamate-containing complexes exerted a potent anticancer activity against cisplatin-resistant cancer cells independent of p53 status. *Oncotarget*, **2017**, 8, 490-505	3.3	52
58	A cost-effective disposable graphene-modified electrode decorated with alternating layers of Au NPs for the simultaneous detection of dopamine and uric acid in human urine. *RSC Advances*, **2016**, 6, 80756-80765	3.7	52
57	A facile fabrication of platinum nanoparticle-modified graphite pencil electrode for highly sensitive detection of hydrogen peroxide. *Journal of Electroanalytical Chemistry*, **2015**, 740, 68-74	4.1	36
56	A novel, fast and cost effective graphene-modified graphite pencil electrode for trace quantification of L-tyrosine. *Analytical Methods*, **2015**, 7, 9535-9541	3.2	36
55	Porous Copper-Modified Graphite Pencil Electrode for the Amperometric Detection of 4-Nitrophenol. *Electroanalysis*, **2014**, 26, 2484-2490	3	29
54	Visual detection of single-base mismatches in DNA using hairpin oligonucleotide with double-target DNA binding sequences and gold nanoparticles. *Biosensors and Bioelectronics*, **2012**, 34, 37-43	11.8	29
53	Potent In Vitro and In Vivo Anticancer Activity of New Bipyridine and Bipyrimidine Gold (III) Dithiocarbamate Derivatives. *Cancers*, **2019**, 11,	6.6	28
52	Gold nanoparticles/f-MWCNT nanocomposites modified glassy carbon paste electrode as a novel voltammetric sensor for the determination of cyproterone acetate in pharmaceutical and human body fluids. *Sensors and Actuators B: Chemical*, **2018**, 274, 123-132	8.5	27
51	Nanomolar amperometric sensing of hydrogen peroxide using a graphite pencil electrode modified with palladium nanoparticles. *Mikrochimica Acta*, **2013**, 180, 837-843	5.8	26
50	Cathodized Gold Nanoparticle-Modified Graphite Pencil Electrode for Non-Enzymatic Sensitive Voltammetric Detection of Glucose. *Electroanalysis*, **2017**, 29, 1214-1221	3	23
49	Synthesis, in vitro urease inhibitory potential and molecular docking study of Benzimidazole analogues. *Bioorganic Chemistry*, **2019**, 89, 103024	5.1	23
48	Simple and sensitive detection of 4-nitrophenol in real water samples using gold nanoparticles modified pretreated graphite pencil electrode. *Journal of Electroanalytical Chemistry*, **2018**, 820, 24-31	4.1	20
47	A hybrid nanocomposite of CeO-ZnO-chitosan as an enhanced sensing platform for highly sensitive voltammetric determination of paracetamol and its degradation product -aminophenol.. *RSC Advances*, **2019**, 9, 15986-15996	3.7	19
46	From Electrode Surface Fouling to Sensitive Electroanalytical Determination of Phenols. *Electroanalysis*, **2013**, 25, 1547-1555	3	19
45	Electrochemically Induced Deposition of Thiol-Based Monolayers onto Closely Spaced Microelectrodes. *Langmuir*, **2000**, 16, 9687-9689	4	19

44	Exploring efficacy of indole-based dual inhibitors for α-glucosidase and α-amylase enzymes: In silico, biochemical and kinetic studies. *International Journal of Biological Macromolecules*, **2020**, 154, 217-232	7.9	17
43	Novel Electrochemically Treated Graphite Pencil Electrode Surfaces for the Determination of Trace β-Naphthol in Water Samples. *Journal of the Chinese Chemical Society*, **2016**, 63, 668-676	1.5	17
42	Novel Ce-incorporated zeolite modified-carbon paste electrode for simultaneous trace electroanalysis of lead and cadmium. *Microporous and Mesoporous Materials*, **2017**, 243, 1-8	5.3	16
41	Porous graphene-based electrodes: Advances in electrochemical sensing of environmental contaminants. *Trends in Environmental Analytical Chemistry*, **2021**, 30, e00120	12	16
40	Electrochemical Detection of Abasic Site-Containing DNA. *Electroanalysis*, **2006**, 18, 399-404	3	15
39	Flow Detection of UV Radiation-Induced DNA Damage at a Polypyrrole-Modified Electrode. *Electroanalysis*, **2001**, 13, 537-540	3	15
38	Synthesis, characterization and theoretical calculations of (1,2-diaminocyclohexane)(1,3-diaminopropane)gold(III) chloride complexes: in vitro cytotoxic evaluations against human cancer cell lines. *BioMetals*, **2015**, 28, 827-44	3.4	13
37	Moving Enzyme-Linked ImmunoSorbent Assay to the Point-of-Care Dry-Reagent Strip Biosensors. *American Journal of Biomedical Sciences*,23-32		13
36	Open-circuit Electrochemical Polymerization for the Sensitive Detection of Phenols. *Electroanalysis*, **2016**, 28, 898-902	3	13
35	Modified Electrodes for Selective Voltammetric Detection of Biomolecules. *Electroanalysis*, **2018**, 30, 2551-2574	3	13
34	A novel nanocomposite based on gold nanoparticles loaded on acetylene black for electrochemical sensing of the anticancer drug topotecan in the presence of high concentration of uric acid. *Journal of Electroanalytical Chemistry*, **2018**, 824, 22-31	4.1	11
33	Synthesis, characterization and anticancer evaluation of transplatin derivatives with heterocyclic thiones. *Polyhedron*, **2018**, 141, 360-368	2.7	10
32	Lanthanum-impregnated zeolite modified carbon paste electrode for determination of Cadmium (II). *Microporous and Mesoporous Materials*, **2016**, 225, 164-173	5.3	10
31	Efficient ionic medium supported reduced graphene oxide-based sensor for selective sensing of dopamine. *Materials Advances*, **2020**, 1, 783-793	3.3	9
30	A Novel Platform Based on Au□eO2@MWCNT Functionalized Glassy Carbon Microspheres for Voltammetric Sensing of Valrubicin as Bladder Anticancer Drug and its Interaction with DNA. *Electroanalysis*, **2020**, 32, 2146-2155	3	9
29	Factors Influencing the Adsorptive Stripping Potentiometric Response of Synthetic Oligonucleotides. *Electroanalysis*, **2000**, 12, 917-920	3	9
28	Adsorptive stripping voltammetric behaviour of hypoxanthine. *Analytica Chimica Acta*, **1996**, 328, 47-52	6.6	9
27	Electroanalytical Determination of Antibacterial Ciprofloxacin in Pure Form and in Drug Formulations. *Arabian Journal for Science and Engineering*, **2014**, 39, 131-138		8

26	Synthesis, X-ray structure, DFT calculations and anticancer activity of a selenourea coordinated gold(I)-carbene complex. *Polyhedron*, **2017**, 137, 197-206	2.7	8
25	Synthesis, structural characterization, electrochemical behavior and anticancer activity of gold(III) complexes of meso-1,2-di(1-naphthyl)-1,2-diaminoethane and tetraphenylporphyrin. *New Journal of Chemistry*, **2016**, 40, 8288-8295	3.6	7
24	Electron paramagnetic resonance monitoring for on-demand electrochemically-generated radicals. *Electrochimica Acta*, **2015**, 160, 22-27	6.7	7
23	Adsorption and association of xanthine in absence and presence of some divalent metal ions at the mercury/solution interface. *Electrochimica Acta*, **1996**, 41, 2883-2892	6.7	7
22	Adsorptive stripping voltammetry of antibiotics rifamycin SV and rifampicin at renewable pencil electrodes. *Acta Chimica Slovenica*, **2014**, 61, 398-405	1.9	7
21	A New Approach of Controlled Single Step In Situ Fabrication of Graphene Composite Sensor for Simultaneous Sensing of Small Biomolecules in Human Urine. *ChemistrySelect*, **2019**, 4, 1640-1649	1.8	6
20	Electrochemically Inspired Copper(II) Complex on Disposable Graphite Pencil Electrode for Effective Simultaneous Detection of Hypoxanthine, Xanthine, and Uric Acid. *Electroanalysis*, **2018**, 30, 2311-2320	3	6
19	NMR and kinetic studies of the interactions of [Au(cis-DACH)Cl2]Cl and [Au(cis-DACH)2]Cl3 with potassium cyanide in aqueous solution. *Journal of Coordination Chemistry*, **2014**, 67, 3431-3443	1.6	6
18	A new hybrid nanocomposite electrode based on Au/CeO-decorated functionalized glassy carbon microspheres for the voltammetric sensing of quercetin and its interaction with DNA. *Analytical Methods*, **2020**, 12, 2846-2857	3.2	6
17	Electroanalytical determination of heavy metals in drinking waters in the eastern province of Saudi Arabia. *Desalination and Water Treatment*, **2016**, 57, 15697-15705		5
16	Modified Lanthanum□eolite for Sensitive Electrochemical Detection of Heavy Metal Ions. *Arabian Journal for Science and Engineering*, **2019**, 44, 217-226	2.5	5
15	In-situ single-step electrochemical AgO modified graphite pencil electrode for trace determination of DL-methionine in human serum sample. *Sensors and Actuators B: Chemical*, **2019**, 281, 765-773	8.5	5
14	Study of the Interaction of Some Potential Anticancer Gold(III) Complexes with Biologically Important Thiols Using NMR, UV□Vis, and Electrochemistry. *International Journal of Chemical Kinetics*, **2017**, 49, 387-397	1.4	3
13	Spectroscopic and Electrochemical Studies of the Interaction of Some Gold(III) Complexes with Biologically Relevant Thiones. *International Journal of Chemical Kinetics*, **2018**, 50, 178-187	1.4	3
12	Cytotoxic effects of gold(I) complexes against colon, cervical and osteo carcinoma cell lines: a mechanistic approach. *New Journal of Chemistry*, **2019**, 43, 14565-14574	3.6	3
11	Graphene nanosheet-sandwiched platinum nanoparticles deposited on a graphite pencil electrode as an ultrasensitive sensor for dopamine.. *RSC Advances*, **2022**, 12, 2057-2067	3.7	3
10	Hydrothermal synthesis and electrochemical characterization of novel zeolite membranes supported on flat porous clay-based microfiltration system and its application of heavy metals removal of synthetic wastewaters. *Microporous and Mesoporous Materials*, **2022**, 334, 111778	5.3	3
9	Sensitive and rapid electrochemical bioassay of glycosidase activity. *Analyst, The*, **2006**, 131, 889-91	5	2

8	Synthesis, characterization and electrochemical properties of some biologically important indole-based-sulfonamide derivatives. *BMC Chemistry*, **2020**, 14, 38	3.7	1
7	Graphene and Graphene Composites-Modified Electrodes Surfaces for Selective Sensing of Dopamine in the Presence of Ascorbic Acid and Uric Acid **2019**, 683-706		1
6	Carbon nanotube-based electrochemical signal amplification for breast cancer gene detection. *International Journal of Nano and Biomaterials*, **2009**, 2, 52	0.2	1
5	Comparative studies on the adsorption and association of 3-methylxanthine and 7-methylxanthine at a charged interface. *Monatshefte F Chemie*, **1996**, 127, 609-619	1.4	1
4	Synthesis, in vitro anticancer activity and reactions with biomolecule of gold(I)-NHC carbene complexes. *Journal of Molecular Structure*, **2022**, 1255, 132482	3.4	1
3	Preparation of Sodalite and Faujasite Clay Composite Membranes and Their Utilization in the Decontamination of Dye Effluents.. *Membranes*, **2021**, 12,	3.8	1
2	Oligonucleotide-based signal amplification for ultrasensitive electrochemical biosensor. *International Journal of Biomedical Nanoscience and Nanotechnology*, **2011**, 2, 177	0.2	
1	Electron and proton magnetic resonance spectroscopic investigation of anthracene oxidation.. *Heliyon*, **2021**, 7, e08474	3.6	