

Ahmed Galal

List of Publications by Year in descending order

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108
papers

2,998
citations

159525

30
h-index

214721

47
g-index

110
all docs

110
docs citations

110
times ranked

2715
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrophil-like Cell-Membrane-Coated Nanozyme Therapy for Ischemic Brain Damage and Long-Term Neurological Functional Recovery. <i>ACS Nano</i> , 2021, 15, 2263-2280.	7.3	170
2	Simultaneous determination of catecholamines, uric acid and ascorbic acid at physiological levels using poly(N-methylpyrrole)/Pd-nanoclusters sensor. <i>Analytical Biochemistry</i> , 2010, 400, 78-88.	1.1	163
3	Palladium nanoclusters-coated polyfuran as a novel sensor for catecholamine neurotransmitters and paracetamol. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 566-574.	4.0	118
4	Poly(3,4-ethylene-dioxythiophene) electrode for the selective determination of dopamine in presence of sodium dodecyl sulfate. <i>Bioelectrochemistry</i> , 2011, 80, 132-141.	2.4	104
5	Ruthenium nanoparticles-modified reduced graphene prepared by a green method for high-performance supercapacitor application in neutral electrolyte. <i>RSC Advances</i> , 2017, 7, 11286-11296.	1.7	72
6	Simultaneous determination of paracetamol and neurotransmitters in biological fluids using a carbon paste sensor modified with gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 13015.	6.7	69
7	A novel sensor of cysteine self-assembled monolayers over gold nanoparticles for the selective determination of epinephrine in presence of sodium dodecyl sulfate. <i>Analyst</i> , The, 2012, 137, 2658.	1.7	69
8	Electrochemistry of glucose at gold nanoparticles modified graphite/SrPdO ₃ electrode – Towards a novel non-enzymatic glucose sensor. <i>Journal of Electroanalytical Chemistry</i> , 2015, 749, 42-52.	1.9	68
9	Determination of morphine at gold nanoparticles/Nafion® carbon paste modified sensor electrode. <i>Analyst</i> , The, 2011, 136, 4682.	1.7	60
10	Carbon Paste Gold Nanoparticles Sensor for the Selective Determination of Dopamine in Buffered Solutions. <i>Journal of the Electrochemical Society</i> , 2010, 157, F116.	1.3	59
11	A new strategy for NADH sensing using ionic liquid crystals-carbon nanotubes/nano-magnetite composite platform. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 65-73.	4.0	55
12	Probing cysteine self-assembled monolayers over gold nanoparticles – Towards selective electrochemical sensors. <i>Talanta</i> , 2012, 93, 264-273.	2.9	53
13	Determination of some neurotransmitters at cyclodextrin/ionic liquid crystal/graphene composite electrode. <i>Electrochimica Acta</i> , 2016, 199, 319-331.	2.6	50
14	Characterization and electrochemical investigations of micellar/drug interactions. <i>Electrochimica Acta</i> , 2011, 56, 2510-2517.	2.6	47
15	Investigation of the catalytic activity of LaBO ₃ (B=Ni, Co, Fe or Mn) prepared by the microwave-assisted method for hydrogen evolution in acidic medium. <i>Electrochimica Acta</i> , 2011, 56, 5722-5730.	2.6	46
16	Simultaneous Determination of Catecholamines and Serotonin on Poly(3,4-ethylene dioxythiophene) Modified Pt Electrode in Presence of Sodium Dodecyl Sulfate. <i>Journal of the Electrochemical Society</i> , 2011, 158, F52.	1.3	45
17	Ultrasensitive determination of nalbuphine and tramadol narcotic analgesic drugs for postoperative pain relief using nano-cobalt oxide/ionic liquid crystal/carbon nanotubes-based electrochemical sensor. <i>Journal of Electroanalytical Chemistry</i> , 2019, 839, 48-58.	1.9	41
18	Effective and Facile Determination of Vitamin B6 in Human Serum with CuO Nanoparticles/Ionic Liquid Crystal Carbon Based Sensor. <i>Journal of the Electrochemical Society</i> , 2017, 164, B730-B738.	1.3	40

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19	Novel Design of a Layered Electrochemical Dopamine Sensor in Real Samples Based on Gold Nanoparticles/ β -Cyclodextrin/Nafion-Modified Gold Electrode. ACS Omega, 2019, 4, 17947-17955.	1.6	40
20	Electrocatalytic oxidation of some biologically important compounds at conducting polymer electrodes modified by metal complexes. Journal of Solid State Electrochemistry, 1998, 2, 7-15.	1.2	39
21	Enhancing the specific capacitance of SrRuO ₃ and reduced graphene oxide in NaNO ₃ , H ₃ PO ₄ and KOH electrolytes. Electrochimica Acta, 2018, 260, 738-747.	2.6	38
22	Layered-designed composite sensor based on crown ether/Nafion [®] /polymer/carbon nanotubes for determination of norepinephrine, paracetamol, tyrosine and ascorbic acid in biological fluids. Journal of Electroanalytical Chemistry, 2018, 828, 11-23.	1.9	37
23	Crown ether modified poly(hydroquinone)/carbon nanotubes based electrochemical sensor for simultaneous determination of levodopa, uric acid, tyrosine and ascorbic acid in biological fluids. Journal of Electroanalytical Chemistry, 2020, 863, 114032.	1.9	37
24	Molecular cloning, structural modeling and characterization of a novel glutaminase-free L-asparaginase from Cobetia amphilecti AM16. International Journal of Biological Macromolecules, 2020, 143, 685-695.	3.6	36
25	Electrochemically Aided Control of Solid Phase Micro-Extraction (EASPME) Using Conducting Polymer-Coated Solid Substrates Applicable to Neutral Analytes. Mikrochimica Acta, 2003, 143, 205-215.	2.5	33
26	Monodispersed Gold Nanoparticles Decorated Carbon Nanotubes as an Enhanced Sensing Platform for Nanomolar Detection of Tramadol. Electroanalysis, 2012, 24, 2135-2146.	1.5	33
27	Nickel oxide nanoparticles/ionic liquid crystal modified carbon composite electrode for determination of neurotransmitters and paracetamol. New Journal of Chemistry, 2016, 40, 662-673.	1.4	32
28	Highly Conductive Crown Ether/Ionic Liquid Crystal-Carbon Nanotubes Composite Based Electrochemical Sensor for Chiral Recognition of Tyrosine Enantiomers. Journal of the Electrochemical Society, 2019, 166, B623-B630.	1.3	32
29	Lanthanum nickel oxide nano-perovskite decorated carbon nanotubes/poly(aniline) composite for effective electrochemical oxidation of urea. Journal of Electroanalytical Chemistry, 2020, 862, 114009.	1.9	32
30	New insight for simultaneous determination of hazardous di-hydroxybenzene isomers at crown ether modified polymer/carbon nanotubes composite sensor. Journal of Hazardous Materials, 2020, 388, 122038.	6.5	32
31	Rapid and simple electrochemical detection of morphine on graphene [®] -palladium-hybrid-modified glassy carbon electrode. Analytical and Bioanalytical Chemistry, 2014, 406, 6933-6942.	1.9	31
32	Design strategy and preparation of a conductive layered electrochemical sensor for simultaneous determination of ascorbic acid, dobutamine, acetaminophen and amlodipine. Sensors and Actuators B: Chemical, 2019, 297, 126648.	4.0	31
33	Gold-doped nano-perovskite-decorated carbon nanotubes for electrochemical sensing of hazardous hydrazine with application in wastewater sample. Sensors and Actuators B: Chemical, 2021, 327, 128879.	4.0	31
34	Synthesis, structure and catalytic activity of nano-structured Sr [®] Ru [®] O type perovskite for hydrogen production. Applied Catalysis A: General, 2010, 378, 151-159.	2.2	30
35	Electrochemical Determination of Neurotransmitters Using Gold Nanoparticles on Nafion/Carbon Paste Modified Electrode. Journal of the Electrochemical Society, 2012, 159, H765-H771.	1.3	30
36	Conducting Polymer-Mixed Oxide Composite Electrocatalyst for Enhanced Urea Oxidation. Journal of the Electrochemical Society, 2018, 165, J3310-J3317.	1.3	30

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37	Gold Nanoparticles Decorated Graphene as a High Performance Sensor for Determination of Trace Hydrazine Levels in Water. <i>Electroanalysis</i> , 2018, 30, 1757-1766.	1.5	29
38	Electrochemical Sensor Based on Ionic Liquid Crystal Modified Carbon Paste Electrode in Presence of Surface Active Agents for Enoxacin Antibacterial Drug. <i>Journal of the Electrochemical Society</i> , 2015, 162, B9-B15.	1.3	28
39	Evidence of Core-Shell Formation between NdFeO_3 Nano-Perovskite and Ionic Liquid Crystal and Its Application in Electrochemical Sensing of Metoclopramide. <i>Journal of the Electrochemical Society</i> , 2016, 163, B325-B334.	1.3	28
40	Electrochemical Determination of Neurotransmitters at Crown Ether Modified Carbon Nanotube Composite: Application for Sub-nano sensing of Serotonin in Human Serum. <i>Electroanalysis</i> , 2019, 31, 1204-1214.	1.5	28
41	Novel sensor based on carbon paste/Nafion [®] modified with gold nanoparticles for the determination of glutathione. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1661-1672.	1.9	27
42	Nano-magnetite/ionic liquid crystal modifiers of carbon nanotubes composite electrode for ultrasensitive determination of a new anti-hepatitis C drug in human serum. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 296-306.	1.9	27
43	Electrodeposited Metals at Conducting Polymer Electrodes. II: Study of the Oxidation of Methanol at Poly(3-methylthiophene) Modified with Pt-Pd Co-catalyst. <i>Topics in Catalysis</i> , 2008, 47, 73-83.	1.3	26
44	Electrocatalytic evolution of hydrogen on a novel SrPdO_3 perovskite electrode. <i>Journal of Power Sources</i> , 2010, 195, 3806-3809.	4.0	26
45	The effect of A-site doping in a strontium palladium perovskite and its applications for non-enzymatic glucose sensing. <i>RSC Advances</i> , 2016, 6, 16183-16196.	1.7	26
46	Improved host-guest electrochemical sensing of dopamine in the presence of ascorbic and uric acids in a β -cyclodextrin/Nafion [®] /polymer nanocomposite. <i>Analytical Methods</i> , 2014, 6, 5962-5971.	1.3	25
47	New strategy for determination of anti-viral drugs based on highly conductive layered composite of MnO_2 /graphene/ionic liquid crystal/carbon nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2019, 838, 107-118.	1.9	25
48	Catalytic Activity toward Oxygen Evolution of LaFeO_3 Prepared by the Microwave Assisted Citrate Method. <i>Journal of the Electrochemical Society</i> , 2012, 159, F600-F605.	1.3	24
49	Electrochemical Method for the Determination of Three New Anti-Hepatitis C Drugs: Application in Human Blood Serum. <i>Journal of the Electrochemical Society</i> , 2018, 165, B442-B451.	1.3	24
50	Synthesis, structural and morphological characterizations of nano-Ru-based perovskites/RGO composites. <i>Scientific Reports</i> , 2019, 9, 7948.	1.6	24
51	Metal-Ion Depletion Impacts the Stability and Performance of Battery Electrode Deionization over Multiple Cycles. <i>Environmental Science & Technology</i> , 2021, 55, 5412-5421.	4.6	24
52	Electroanalysis of Benazepril Hydrochloride Antihypertensive Drug Using an Ionic Liquid Crystal Modified Carbon Paste Electrode. <i>Electroanalysis</i> , 2015, 27, 1282-1292.	1.5	23
53	Voltammetry study of electrocatalytic activity of lanthanum nickel perovskite nanoclusters-based composite catalyst for effective oxidation of urea in alkaline medium. <i>Synthetic Metals</i> , 2020, 266, 116372.	2.1	23
54	Gold Nanoparticles Modified Electrode for the Determination of an Antihypertensive Drug. <i>Electroanalysis</i> , 2012, 24, 1431-1440.	1.5	22

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55	Nano-perovskite decorated carbon nanotubes composite for ultrasensitive determination of a cardio-stimulator drug. Journal of Electroanalytical Chemistry, 2018, 816, 149-159.	1.9	22
56	Efficient electrochemical sensor for determination of H ₂ O ₂ in human serum based on nano iron-nickel alloy/carbon nanotubes/ionic liquid crystal composite. Journal of Electroanalytical Chemistry, 2021, 881, 114953.	1.9	22
57	Host Guest Inclusion Complex Modified Electrode for the Sensitive Determination of a Muscle Relaxant Drug. Journal of the Electrochemical Society, 2016, 163, B403-B409.	1.3	21
58	Hematite Nanoparticles/Ionic Liquid Crystal/Graphene-Based Nanocomposite Electrochemical Sensor for Sensitive Determination of Antipsychotic Drug. Journal of the Electrochemical Society, 2016, 163, B659-B666.	1.3	20
59	Fabrication of Cyclodextrin/Glycine/Carbon Nanotubes Electrochemical Neurotransmitters Sensor Application in Ultra-sensitive Determination of DOPAC in Human Serum. Electroanalysis, 2018, 30, 1678-1688.	1.5	20
60	Electrochemistry and Detection of Some Organic and Biological Molecules at Conducting Polymer Electrodes. II. Effect of Nature of Polymer Electrode and Substrate on Electrochemical Behavior and Detection of Some Neurotransmitters. Analytical Letters, 1993, 26, 1361-1381.	1.0	19
61	Direct and Simple Electrochemical Determination of Morphine at PEDOT Modified Pt Electrode. Electroanalysis, 2011, 23, 737-746.	1.5	19
62	Graphene prepared by gamma irradiation for corrosion protection of stainless steel 316 in chloride containing electrolytes. RSC Advances, 2015, 5, 71627-71636.	1.7	19
63	Electrochemical Morphine Sensor Based on Gold Nanoparticles Metalphthalocyanine Modified Carbon Paste Electrode. Electroanalysis, 2015, 27, 415-428.	1.5	19
64	Anodic stripping voltammetry at mercury films deposited on conducting poly(3-methylthiophene) electrodes. Electroanalysis, 1992, 4, 77-85.	1.5	18
65	New Insight in Fabrication of a Sensitive Nano-Magnetite/Glutamine/Carbon Based Electrochemical Sensor for Determination of Aspirin and Omeprazole. Journal of the Electrochemical Society, 2019, 166, B161-B172.	1.3	18
66	Cobalt Oxide Nanoparticles/Graphene/Ionic Liquid Crystal Modified Carbon Paste Electrochemical Sensor for Ultra-sensitive Determination of a Narcotic Drug. Advanced Pharmaceutical Bulletin, 2019, 9, 110-121.	0.6	18
67	Surface Modification of Carbon Paste Electrode with Nano-Structured Modifiers: Application for Sub-Nano-Sensing of Paracetamol. Journal of the Electrochemical Society, 2017, 164, B519-B527.	1.3	17
68	The application of various immobilized crown ether platinum-modified electrodes as potentiometric and amperometric detectors for flow injection analyses of catechol and catecholamines. Electroanalysis, 1995, 7, 420-424.	1.5	16
69	Electrochemistry and detection of dopamine at a poly(3,4-ethylenedioxythiophene) electrode modified with ferrocene and cobaltocene. Ionics, 2015, 21, 2371-2382.	1.2	16
70	Graphene Functionalization by 1,6-Diaminohexane and Silver Nanoparticles for Water Disinfection. Journal of Nanomaterials, 2016, 2016, 1-7.	1.5	16
71	Electrochemical Sensing Platform Based on Nano-Perovskite/Glycine/Carbon Composite for Amlodipine and Ascorbic Acid Drugs. Electroanalysis, 2019, 31, 448-460.	1.5	16
72	Energy and cost-efficient nano-Ru-based perovskites/RGO composites for application in high performance supercapacitors. Journal of Colloid and Interface Science, 2019, 538, 578-586.	5.0	16

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73	Electrodeposited nanostructured Pt/Ru co-catalyst on graphene for the electrocatalytic oxidation of formaldehyde. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1717-1727.	1.2	15
74	Electrochemistry and Detection of Dobutamine at Gold Nanoparticles Cobalt-Phthalocyanine Modified Carbon Paste Electrode. <i>Journal of the Electrochemical Society</i> , 2015, 162, B304-B311.	1.3	15
75	Ionic Liquid Crystals Modifier for Selective Determination of Terazosin Antihypertensive Drug in Presence of Common Interference Compounds. <i>Crystals</i> , 2017, 7, 27.	1.0	15
76	Effect of Redox Electrolyte on the Specific Capacitance of SrRuO ₃ /Reduced Graphene Oxide Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11641-11650.	1.5	15
77	An Innovative Design of an Efficient Layered Electrochemical Sensor for Determination of Tyrosine and Tryptophan in the Presence of Interfering Compounds in Biological Fluids. <i>Journal of the Electrochemical Society</i> , 2020, 167, 027505.	1.3	15
78	An Efficient and Durable Electrocatalyst for Hydrogen Production Based on Earth-Abundant Oxide-Graphene Composite. <i>ChemistrySelect</i> , 2017, 2, 10261-10270.	0.7	13
79	Effect of B-site doping on Sr ₂ PdO ₃ perovskite catalyst activity for non-enzymatic determination of glucose in biological fluids. <i>Journal of Electroanalytical Chemistry</i> , 2019, 852, 113523.	1.9	13
80	Development of an Innovative Nitrite Sensing Platform Based on the Construction of an Electrochemical Composite Sensor of Polymer Coated CNTs and Decorated with Magnetite Nanoparticles. <i>Electroanalysis</i> , 2021, 33, 1510-1519.	1.5	13
81	Electrochemistry and Characterization of Some Organic Molecules at μ Microsize-Conducting Polymer Electrodes. <i>Electroanalysis</i> , 1998, 10, 121-126.	1.5	12
82	Hybrid organic/inorganic films of conducting polymers modified with phthalocyanines. I. Film preparation and voltammetric studies. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 521-530.	1.2	12
83	Novel designed electrochemical sensor for simultaneous determination of linezolid and meropenem pneumonia drugs. <i>Journal of Electroanalytical Chemistry</i> , 2021, 902, 115814.	1.9	12
84	An innovative design of hydrazine hydrate electrochemical sensor based on decoration of crown ether/Nafion/carbon nanotubes composite with gold nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2021, 888, 115165.	1.9	11
85	Fabrication and Evaluation of a Sulfide Microelectrode for Biofilm Studies. <i>ACS Symposium Series</i> , 1998, , 231-247.	0.5	9
86	Electrochemistry and Determination of an Antiviral Drug at Ionic Liquids Crystals-Carbon Nanotubes Modified Glassy Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2021, 168, 116512.	1.3	9
87	Hybrid organic/inorganic films of conducting polymers modified with phthalocyanines. II. EIS studies and film characterization. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 531-542.	1.2	8
88	Electrochemical sensor based on incorporation of gold nanoparticles, ionic liquid crystal, and β -cyclodextrin into carbon paste composite for ultra-sensitive determination of norepinephrine in real samples. <i>Canadian Journal of Chemistry</i> , 2019, 97, 805-814.	0.6	8
89	Improving corrosion protection of Al ₉₇ Mg ₃ alloy in neutral sodium chloride solution by 1,2-bis(triethoxysilyl)ethane coating. <i>Applied Surface Science</i> , 2019, 465, 143-153.	3.1	8
90	Host guest inclusion complex/polymer-CNT composite for efficient determination of uric acid in presence of interfering species. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 115012.	1.9	8

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91	Efficient Electrochemical Sensor Based on Gold Nanoclusters/Carbon Ionic Liquid Crystal for Sensitive Determination of Neurotransmitters and Anti-Parkinson Drugs. <i>Advanced Pharmaceutical Bulletin</i> , 2020, 10, 46-55.	0.6	8
92	Co-precipitation synthesis control for sodium ion adsorption capacity and cycle life of copper hexacyanoferrate electrodes in battery electrode deionization. <i>Chemical Engineering Journal</i> , 2022, 435, 135001.	6.6	8
93	Electrolytic Treatment of Azo Dye Wastewaters: Impact of Matrix Chloride Content. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 514-518.	0.7	6
94	Designed electrochemical sensor based on metallocene modified conducting polymer composite for effective determination of tramadol in real samples. <i>Canadian Journal of Chemistry</i> , 2021, 99, 437-446.	0.6	6
95	Molecular dynamics study of ethanol solvated by water on the Pt (111) surface. <i>Chemical Physics</i> , 2012, 402, 41-47.	0.9	5
96	Novel method of one pot preparation of thiourea self-assembled monolayers over gold nanoparticles-carbon nanotubes composite for sensing application of phenolic compounds. <i>Journal of Electroanalytical Chemistry</i> , 2021, 902, 115795.	1.9	5
97	Electrochemical sensing of dobutamine, paracetamol, amlodipine, and daclatasvir in serum based on thiourea SAMs over nano-gold particles@CNTs composite. <i>New Journal of Chemistry</i> , 2022, 46, 12265-12277.	1.4	5
98	Iron-based perovskites-reduced graphene oxide as possible cathode materials for rechargeable iron-ion battery. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159383.	2.8	4
99	Dynamic and electrical properties of aromatic poly(amide hydrazides) filled with multiwalled carbon nanotubes. <i>Polymer Composites</i> , 2018, 39, E842.	2.3	3
100	Voltammetric Study of the Electrocatalytic Oxidation of Formaldehyde on Pt/Pd Co-catalyst Supported on Reduced Graphene Oxide. <i>Electroanalysis</i> , 2020, 32, 2733-2744.	1.5	3
101	Ionic liquid crystals/nano-nickel oxide-decorated carbon nanotubes composite for electrocatalytic treatment of urea-contaminated water. <i>Journal of Water Process Engineering</i> , 2022, 48, 102823.	2.6	3
102	Comparative Study of Metallocene Modified Gold Nanoparticles Polymer Electrodes for Effective Determination of Dopamine. <i>Electroanalysis</i> , 2020, 32, 2860-2869.	1.5	2
103	Self-Assembled Monolayers on Nanostructured Composites for Electrochemical Sensing Applications. , 2016, , 417-478.		2
104	Sensors Based on Organic Conducting-Polymer Electrodes. <i>ACS Symposium Series</i> , 1998, , 210-230.	0.5	1
105	Thermal and optical properties of aromatic polyamide-hydrazides modified with multiwalled carbon nanotubes. <i>Polymers and Polymer Composites</i> , 2021, 29, 591-604.	1.0	1
106	Use of ionic liquids in electrochemical sensors. , 2022, , 343-368.		1
107	Electrochemistry of Ion-Selective Conducting Poly(3-methylthiophene): The Polymer, the Charge, and the Interface. <i>ACS Symposium Series</i> , 2002, , 18-37.	0.5	0
108	Self-Assembled Monolayers on Nano-structured Composites for Electrochemical Sensing Applications. , 2015, , 1-51.		0