

Ahmed Galal

List of Publications by Year in descending order

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108
papers

2,998
citations

159358

30
h-index

214527

47
g-index

110
all docs

110
docs citations

110
times ranked

2715
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of ionic liquids in electrochemical sensors. , 2022, , 343-368.		1
2	Co-precipitation synthesis control for sodium ion adsorption capacity and cycle life of copper hexacyanoferrate electrodes in battery electrode deionization. Chemical Engineering Journal, 2022, 435, 135001.	6.6	8
3	Ionic liquid crystals/nano-nickel oxide-decorated carbon nanotubes composite for electrocatalytic treatment of urea-contaminated water. Journal of Water Process Engineering, 2022, 48, 102823.	2.6	3
4	Electrochemical sensing of dobutamine, paracetamol, amlodipine, and daclatasvir in serum based on thiourea SAMs over nano-gold particles@CNTs composite. New Journal of Chemistry, 2022, 46, 12265-12277.	1.4	5
5	Thermal and optical properties of aromatic polyamide@hydrazides modified with multiwalled carbon nanotubes. Polymers and Polymer Composites, 2021, 29, 591-604.	1.0	1
6	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
7	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
8	Host guest inclusion complex/polymer-CNT composite for efficient determination of uric acid in presence of interfering species. Journal of Electroanalytical Chemistry, 2021, 882, 115012.	1.9	8
9	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. Electroanalysis, 2021, 33, 1510-1519.	1.5	13
10	Metal-Ion Depletion Impacts the Stability and Performance of Battery Electrode Deionization over Multiple Cycles. Environmental Science & Technology, 2021, 55, 5412-5421.	4.6	24
11	Designed electrochemical sensor based on metallocene modified conducting polymer composite for effective determination of tramadol in real samples. Canadian Journal of Chemistry, 2021, 99, 437-446.	0.6	6
12	An innovative design of hydrazine hydrate electrochemical sensor based on decoration of crown ether/Nafion/carbon nanotubes composite with gold nanoparticles. Journal of Electroanalytical Chemistry, 2021, 888, 115165.	1.9	11
13	Iron-based perovskites-reduced graphene oxide as possible cathode materials for rechargeable iron-ion battery. Journal of Alloys and Compounds, 2021, 870, 159383.	2.8	4
14	Neutrophil-like Cell-Membrane-Coated Nanozyme Therapy for Ischemic Brain Damage and Long-Term Neurological Functional Recovery. ACS Nano, 2021, 15, 2263-2280.	7.3	170
15	Novel designed electrochemical sensor for simultaneous determination of linezolid and meropenem pneumonia drugs. Journal of Electroanalytical Chemistry, 2021, 902, 115814.	1.9	12
16	Novel method of one pot preparation of thiourea self-assembled monolayers over gold nanoparticles-carbon nanotubes composite for sensing application of phenolic compounds. Journal of Electroanalytical Chemistry, 2021, 902, 115795.	1.9	5
17	Electrochemistry and Determination of an Antiviral Drug at Ionic Liquids Crystals-Carbon Nanotubes Modified Glassy Carbon Electrode. Journal of the Electrochemical Society, 2021, 168, 116512.	1.3	9
18	An Innovative Design of an Efficient Layered Electrochemical Sensor for Determination of Tyrosine and Tryptophan in the Presence of Interfering Compounds in Biological Fluids. Journal of the Electrochemical Society, 2020, 167, 027505.	1.3	15

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19	Molecular cloning, structural modeling and characterization of a novel glutaminase-free L-asparaginase from <i>Cobetia amphilecti</i> AM16. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 685-695.	3.6	36
20	Voltammetric Study of the Electrocatalytic Oxidation of Formaldehyde on Pt ²⁺ /Pd Co-catalyst Supported on Reduced Graphene Oxide. <i>Electroanalysis</i> , 2020, 32, 2733-2744.	1.5	3
21	Comparative Study of Metallocene Modified Gold Nanoparticles Polymer Electrodes for Effective Determination of Dopamine. <i>Electroanalysis</i> , 2020, 32, 2860-2869.	1.5	2
22	Crown ether modified poly(hydroquinone)/carbon nanotubes based electrochemical sensor for simultaneous determination of levodopa, uric acid, tyrosine and ascorbic acid in biological fluids. <i>Journal of Electroanalytical Chemistry</i> , 2020, 863, 114032.	1.9	37
23	Lanthanum nickel oxide nano-perovskite decorated carbon nanotubes/poly(aniline) composite for effective electrochemical oxidation of urea. <i>Journal of Electroanalytical Chemistry</i> , 2020, 862, 114009.	1.9	32
24	New insight for simultaneous determination of hazardous di-hydroxybenzene isomers at crown ether modified polymer/carbon nanotubes composite sensor. <i>Journal of Hazardous Materials</i> , 2020, 388, 122038.	6.5	32
25	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
26	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
27	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
28	Novel Design of a Layered Electrochemical Dopamine Sensor in Real Samples Based on Gold Nanoparticles/ β -Cyclodextrin/Nafion-Modified Gold Electrode. <i>ACS Omega</i> , 2019, 4, 17947-17955.	1.6	40
29	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
30	Synthesis, structural and morphological characterizations of nano-Ru-based perovskites/RGO composites. <i>Scientific Reports</i> , 2019, 9, 7948.	1.6	24
31	Design strategy and preparation of a conductive layered electrochemical sensor for simultaneous determination of ascorbic acid, dobutamine, acetaminophen and amlodipine. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126648.	4.0	31
32	Highly Conductive Crown Ether/Ionic Liquid Crystal-Carbon Nanotubes Composite Based Electrochemical Sensor for Chiral Recognition of Tyrosine Enantiomers. <i>Journal of the Electrochemical Society</i> , 2019, 166, B623-B630.	1.3	32
33	New Insight in Fabrication of a Sensitive Nano-Magnetite/Glutamine/Carbon Based Electrochemical Sensor for Determination of Aspirin and Omeprazole. <i>Journal of the Electrochemical Society</i> , 2019, 166, B161-B172.	1.3	18
34	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
35	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
36	Improving corrosion protection of Al97Mg3 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

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37	Electrochemical Sensing Platform Based on Nano-Perovskite/Glycine/Carbon Composite for Amlodipine and Ascorbic Acid Drugs. <i>Electroanalysis</i> , 2019, 31, 448-460.	1.5	16
38	Energy and cost-efficient nano-Ru-based perovskites/RGO composites for application in high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 578-586.	5.0	16
39	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
40	Cobalt Oxide Nanoparticles/Graphene/Ionic Liquid Crystal Modified Carbon Paste Electrochemical Sensor for Ultra-sensitive Determination of a Narcotic Drug. <i>Advanced Pharmaceutical Bulletin</i> , 2019, 9, 110-121.	0.6	18
41	Fabrication of Cyclodextrin/Glycine/Carbon Nanotubes Electrochemical Neurotransmitters Sensor Application in Ultra-sensitive Determination of DOPAC in Human Serum. <i>Electroanalysis</i> , 2018, 30, 1678-1688.	1.5	20
42	Enhancing the specific capacitance of SrRuO ₃ and reduced graphene oxide in NaNO ₃ , H ₃ PO ₄ and KOH electrolytes. <i>Electrochimica Acta</i> , 2018, 260, 738-747.	2.6	38
43	Nano-perovskite decorated carbon nanotubes composite for ultrasensitive determination of a cardio-stimulator drug. <i>Journal of Electroanalytical Chemistry</i> , 2018, 816, 149-159.	1.9	22
44	Dynamic and electrical properties of aromatic poly(amide hydrazides) filled with multi-walled carbon nanotubes. <i>Polymer Composites</i> , 2018, 39, E842.	2.3	3
45	Conducting Polymer-Mixed Oxide Composite Electrocatalyst for Enhanced Urea Oxidation. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3310-J3317.	1.3	30
46	Layered-designed composite sensor based on crown ether/Nafion®/polymer/carbon nanotubes for determination of norepinephrine, paracetamol, tyrosine and ascorbic acid in biological fluids. <i>Journal of Electroanalytical Chemistry</i> , 2018, 828, 11-23.	1.9	37
47	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
48	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
49	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
50	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
51	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
52	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
53	Surface Modification of Carbon Paste Electrode with Nano-Structured Modifiers: Application for Sub-Nano-Sensing of Paracetamol. <i>Journal of the Electrochemical Society</i> , 2017, 164, B519-B527.	1.3	17
54	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

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55	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
56	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
57	Graphene Functionalization by 1,6-Diaminohexane and Silver Nanoparticles for Water Disinfection. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-7.	1.5	16
58	Host Guest Inclusion Complex Modified Electrode for the Sensitive Determination of a Muscle Relaxant Drug. <i>Journal of the Electrochemical Society</i> , 2016, 163, B403-B409.	1.3	21
59	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
60	Hematite Nanoparticles/Ionic Liquid Crystal/Graphene-Based Nanocomposite Electrochemical Sensor for Sensitive Determination of Antipsychotic Drug. <i>Journal of the Electrochemical Society</i> , 2016, 163, B659-B666.	1.3	20
61	Determination of some neurotransmitters at cyclodextrin/ionic liquid crystal/graphene composite electrode. <i>Electrochimica Acta</i> , 2016, 199, 319-331.	2.6	50
62	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
63	Nickel oxide nanoparticles/ionic liquid crystal modified carbon composite electrode for determination of neurotransmitters and paracetamol. <i>New Journal of Chemistry</i> , 2016, 40, 662-673.	1.4	32
64	Self-Assembled Monolayers on Nanostructured Composites for Electrochemical Sensing Applications. , 2016, , 417-478.		2
65	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
66	Electrochemistry and detection of dopamine at a poly(3,4-ethylenedioxythiophene) electrode modified with ferrocene and cobaltocene. <i>Ionics</i> , 2015, 21, 2371-2382.	1.2	16
67	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
68	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
69	Self-Assembled Monolayers on Nano-structured Composites for Electrochemical Sensing Applications. , 2015, , 1-51.		0
70	Graphene prepared by gamma irradiation for corrosion protection of stainless steel 316 in chloride containing electrolytes. <i>RSC Advances</i> , 2015, 5, 71627-71636.	1.7	19
71	Electrochemical Morphine Sensor Based on Gold Nanoparticles Metalphthalocyanine Modified Carbon Paste Electrode. <i>Electroanalysis</i> , 2015, 27, 415-428.	1.5	19
72	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

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73	Rapid and simple electrochemical detection of morphine on graphene-palladium-hybrid-modified glassy carbon electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6933-6942.	1.9	31
74	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
75	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
76	Electrochemical Determination of Neurotransmitters Using Gold Nanoparticles on Nafion/Carbon Paste Modified Electrode. <i>Journal of the Electrochemical Society</i> , 2012, 159, H765-H771.	1.3	30
77	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
78	Monodispersed Gold Nanoparticles Decorated Carbon Nanotubes as an Enhanced Sensing Platform for Nanomolar Detection of Tramadol. <i>Electroanalysis</i> , 2012, 24, 2135-2146.	1.5	33
79	Probing cysteine self-assembled monolayers over gold nanoparticles - Towards selective electrochemical sensors. <i>Talanta</i> , 2012, 93, 264-273.	2.9	53
80	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> , 2012, 137, 2658.	1.7	69
81	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
82	Gold Nanoparticles Modified Electrode for the Determination of an Antihypertensive Drug. <i>Electroanalysis</i> , 2012, 24, 1431-1440.	1.5	22
83	Molecular dynamics study of ethanol solvated by water on the Pt (111) surface. <i>Chemical Physics</i> , 2012, 402, 41-47.	0.9	5
84	Determination of morphine at gold nanoparticles/Nafion [®] carbon paste modified sensor electrode. <i>Analyst</i> , 2011, 136, 4682.	1.7	60
85	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
86	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
87	Direct and Simple Electrochemical Determination of Morphine at PEDOT Modified Pt Electrode. <i>Electroanalysis</i> , 2011, 23, 737-746.	1.5	19
88	Characterization and electrochemical investigations of micellar/drug interactions. <i>Electrochimica Acta</i> , 2011, 56, 2510-2517.	2.6	47
89	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
90	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

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91	Electrocatalytic evolution of hydrogen on a novel SrPdO ₃ perovskite electrode. <i>Journal of Power Sources</i> , 2010, 195, 3806-3809.	4.0	26
92	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
93	Synthesis, structure and catalytic activity of nano-structured Sr ²⁺ Ru ⁴⁺ O type perovskite for hydrogen production. <i>Applied Catalysis A: General</i> , 2010, 378, 151-159.	2.2	30
94	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
95	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
96	Electrodeposited Metals at Conducting Polymer Electrodes. II: Study of the Oxidation of Methanol at Poly(3-methylthiophene) Modified with Pt ²⁺ /Pd Co-catalyst. <i>Topics in Catalysis</i> , 2008, 47, 73-83.	1.3	26
97	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
98	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
99	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
100	Electrochemically Aided Control of Solid Phase Micro-Extraction (EASPM) Using Conducting Polymer-Coated Solid Substrates Applicable to Neutral Analytes. <i>Mikrochimica Acta</i> , 2003, 143, 205-215.	2.5	33
101	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
102	Electrochemistry and Characterization of Some Organic Molecules at μ -Microsize-Conducting Polymer Electrodes. <i>Electroanalysis</i> , 1998, 10, 121-126.	1.5	12
103	Electrocatalytic oxidation of some biologically important compounds at conducting polymer electrodes modified by metal complexes. <i>Journal of Solid State Electrochemistry</i> , 1998, 2, 7-15.	1.2	39
104	Sensors Based on Organic Conducting-Polymer Electrodes. <i>ACS Symposium Series</i> , 1998, , 210-230.	0.5	1
105	Fabrication and Evaluation of a Sulfide Microelectrode for Biofilm Studies. <i>ACS Symposium Series</i> , 1998, , 231-247.	0.5	9
106	The application of various immobilized crown ether platinum-modified electrodes as potentiometric and amperometric detectors for flow injection analyses of catechol and catecholamines. <i>Electroanalysis</i> , 1995, 7, 420-424.	1.5	16
107	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. <i>Analytical Letters</i> , 1993, 26, 1361-1381.	1.0	19
108	Anodic stripping voltammetry at mercury μ -films-deposited on conducting poly(3-methylthiophene) electrodes. <i>Electroanalysis</i> , 1992, 4, 77-85.	1.5	18