

Ayman H Kamel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

1,459
citations

23
h-index

33
g-index

103
ext. papers

1,696
ext. citations

4.2
avg, IF

5.22
L-index

#	Paper	IF	Citations
99	Novel magnetic nickel ferrite nanoparticles modified with poly(aniline--toluidine) for the removal of hazardous 2,4-dichlorophenol pollutant from aqueous solutions.. <i>RSC Advances</i> , 2022 , 12, 7433-7445	3.7	1
98	Removal of Uranium-238, Thorium-232, and Potassium-40 from Wastewater via Adsorption on Multiwalled Carbon Nanotubes.. <i>ACS Omega</i> , 2022 , 7, 12342-12353	3.9	0
97	All-Solid-State Potentiometric Platforms Modified with a Multi-Walled Carbon Nanotubes for Fluoxetine Determination. <i>Membranes</i> , 2022 , 12, 446	3.8	
96	New Potentiometric Screen-Printed Platforms Modified with Reduced Graphene Oxide and Based on Man-Made Imprinted Receptors for Caffeine Assessment. <i>Polymers</i> , 2022 , 14, 1942	4.5	1
95	Effective screen-printed potentiometric devices modified with carbon nanotubes for the detection of chlorogenic acid: application to food quality monitoring.. <i>RSC Advances</i> , 2021 , 11, 38774-38781	3.7	
94	Paper-Based Potentiometric Device for Rapid and Selective Determination of Salicylhydroxamate as a Urinary Struvite Stone Inhibitor. <i>ACS Omega</i> , 2021 , 6, 27755-27762	3.9	1
93	All-Solid-State Potentiometric Ion-Sensors Based on Tailored Imprinted Polymers for Pholcodine Determination. <i>Polymers</i> , 2021 , 13,	4.5	3
92	Paper-Based Potentiometric Sensors for Nicotine Determination in Smokers' Sweat. <i>ACS Omega</i> , 2021 , 6, 11340-11347	3.9	5
91	Cacodylate Sensors and their Application in the Determination of Amino Acid Levels in Biological Samples. <i>Journal of AOAC INTERNATIONAL</i> , 2021 , 104, 113-121	1.7	
90	Solvent polarity indicators based on bithiophene carboxamide hydrochloride salt derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 404, 112933	4.7	0
89	Paper-based potentiometric sensing devices modified with chemically reduced graphene oxide (CRGO) for trace level determination of pholcodine (opiate derivative drug). <i>RSC Advances</i> , 2021 , 11, 12227-12234	3.7	4
88	Low-cost potentiometric paper-based analytical device based on newly synthesized macrocyclic pyrido-pentapeptide derivatives as novel ionophores for point-of-care copper(ii) determination.. <i>RSC Advances</i> , 2021 , 11, 27174-27182	3.7	3
87	An all-solid-state potentiometric sensor modified with multi-walled carbon nanotubes (MWCNTs) for silicate assessment and water-quality testing. <i>Analytical Methods</i> , 2021 , 13, 1495-1501	3.2	2
86	Solid-Contact Potentiometric Sensors Based on Main-Tailored Bio-Mimics for Trace Detection of Harmine Hallucinogen in Urine Specimens. <i>Molecules</i> , 2021 , 26,	4.8	1
85	Integrated all-solid-state sulfite sensors modified with two different ion-to-electron transducers: rapid assessment of sulfite in beverages.. <i>RSC Advances</i> , 2021 , 11, 3783-3791	3.7	1
84	Solid-State Membrane Sensors Based on Man-Tailored Biomimetic Receptors for Selective Recognition of Isoproturon and Diuron Herbicides. <i>Membranes</i> , 2020 , 10,	3.8	5
83	All-Solid-State Calcium Sensors Modified with Polypyrrol (PPY) and Graphene Oxide (GO) as Solid-Contact Ion-to-Electron Transducers. <i>Chemosensors</i> , 2020 , 8, 93	4	6

82	Porous Activated Carbon from Lignocellulosic Agricultural Waste for the Removal of Acetampirid Pesticide from Aqueous Solutions. <i>Molecules</i> , 2020 , 25,	4.8	25
81	Synthesis and Characterization of CuFeO Nanoparticles Modified with Polythiophene: Applications to Mercuric Ions Removal. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
80	Validation of a Novel Potentiometric Method Based on a Polymeric PVC Membrane Sensor Integrated with Tailored Receptors for the Antileukemia Drug Cytarabine. <i>Polymers</i> , 2020 , 12,	4.5	4
79	A New Validated Potentiometric Method for Sulfite Assay in Beverages Using Cobalt(II) Phthalocyanine as a Sensory Recognition Element. <i>Molecules</i> , 2020 , 25,	4.8	1
78	CuFeO/Polyaniline (PANI) Nanocomposite for the Hazard Mercuric Ion Removal: Synthesis, Characterization, and Adsorption Properties Study. <i>Molecules</i> , 2020 , 25,	4.8	2
77	Modified Screen-Printed Potentiometric Sensors based on Man-Tailored Biomimetics for Diquat Herbicide Determination. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	4
76	Paper Strip and Ceramic Potentiometric Platforms Modified with Nano-Sized Polyaniline (PANI) for Static and Hydrodynamic Monitoring of Chromium in Industrial Samples. <i>Molecules</i> , 2020 , 25,	4.8	5
75	A SnO/CeO Nano-Composite Catalyst for Alizarin Dye Removal from Aqueous Solutions. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
74	Novel Potentiometric Screen-printed Carbon Electrodes for Bisphenol S Detection in Commercial Plastic Samples. <i>Analytical Sciences</i> , 2020 , 36, 1359-1364	1.7	3
73	Modified Potentiometric Screen-Printed Electrodes Based on Imprinting Character for Sodium Deoxycholate Determination. <i>Biomolecules</i> , 2020 , 10,	5.9	5
72	Screen-Printed Sensor Based on Potentiometric Transduction for Free Bilirubin Detection as a Biomarker for Hyperbilirubinemia Diagnosis. <i>Chemosensors</i> , 2020 , 8, 86	4	9
71	Solid-Contact Potentiometric Sensors Based on Stimulus-Responsive Imprinted Polymers for Reversible Detection of Neutral Dopamine. <i>Polymers</i> , 2020 , 12,	4.5	5
70	Novel Validated Analytical Method Based on Potentiometric Transduction for the Determination of Citicoline Psychostimulant/Nootropic Agent. <i>Molecules</i> , 2020 , 25,	4.8	1
69	Rapid and Accurate Validated Potentiometric Method for Bispyribac Herbicide Assessment in Rice and Agricultural Wastewater. <i>Water (Switzerland)</i> , 2020 , 12, 2216	3	1
68	Environmentally friendly synthesis of copper nanoparticles from waste printed circuit boards. <i>Separation and Purification Technology</i> , 2020 , 230, 115860	8.3	34
67	Imprinted Polymeric Beads-Based Screen-Printed Potentiometric Platforms Modified with Multi-Walled Carbon Nanotubes (MWCNTs) for Selective Recognition of Fluoxetine. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
66	Single-Piece All-Solid-State Potential Ion-Selective Electrodes Integrated with Molecularly Imprinted Polymers (MIPs) for Neutral 2,4-Dichlorophenol Assessment. <i>Materials</i> , 2019 , 12,	3.5	5
65	Improved Solid-Contact Nitrate Ion Selective Electrodes Based on Multi-Walled Carbon Nanotubes (MWCNTs) as an Ion-to-Electron Transducer. <i>Sensors</i> , 2019 , 19,	3.8	16

64	Tailor-Made Specific Recognition of Cyromazine Pesticide Integrated in a Potentiometric Strip Cell for Environmental and Food Analysis. <i>Polymers</i> , 2019 , 11,	4.5	14
63	Single-Walled Carbon Nanotubes (SWCNTs) as Solid-Contact in All-Solid-State Perchlorate ISEs: Applications to Fireworks and Propellants Analysis. <i>Sensors</i> , 2019 , 19,	3.8	8
62	Novel Potentiometric 2,6-Dichlorophenolindo-phenolate (DCPIP) Membrane-Based Sensors: Assessment of Their Input in the Determination of Total Phenolics and Ascorbic Acid in Beverages. <i>Sensors</i> , 2019 , 19,	3.8	5
61	Novel Carbon/PEDOT/PSS-Based Screen-Printed Biosensors for Acetylcholine Neurotransmitter and Acetylcholinesterase Detection in Human Serum. <i>Molecules</i> , 2019 , 24,	4.8	21
60	Survey on the Integration of Molecularly Imprinted Polymers as Artificial Receptors in Potentiometric Transducers for pharmaceutical Drugs. <i>International Journal of Electrochemical Science</i> , 2019 , 2085-2124	2.2	11
59	Single-Piece Solid Contact Cu-Selective Electrodes Based on a Synthesized Macrocyclic Calix[4]arene Derivative as a Neutral Carrier Ionophore. <i>Molecules</i> , 2019 , 24,	4.8	8
58	Screen-printed Microsensors Using Polyoctyl-thiophene (POT) Conducting Polymer As Solid Transducer for Ultratrace Determination of Azides. <i>Molecules</i> , 2019 , 24,	4.8	13
57	Non-Equilibrium Potential Responses towards Neutral Orcinol Using All-Solid-State Potentiometric Sensors Integrated with Molecularly Imprinted Polymers. <i>Polymers</i> , 2019 , 11,	4.5	7
56	Potentiometric PVC-Membrane-Based Sensor for Dimethylamine Assessment Using A Molecularly Imprinted Polymer as A Sensory Recognition Element. <i>Polymers</i> , 2019 , 11,	4.5	4
55	Gold Plate Electrodes Functionalized by Multiwall Carbon Nanotube Film for Potentiometric Thallium(I) Detection. <i>Nanomaterials</i> , 2019 , 9,	5.4	5
54	Pre-Concentration Based on Cloud Point Extraction for Ultra-Trace Monitoring of Lead (II) Using Flame Atomic Absorption Spectrometry. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4752	2.6	3
53	Novel Solid-State Potentiometric Sensors Using Polyaniline (PANI) as A Solid-Contact Transducer for Flucarbazone Herbicide Assessment. <i>Polymers</i> , 2019 , 11,	4.5	8
52	All Solid-State Poly (Vinyl Chloride) Membrane Potentiometric Sensor Integrated with Nano-Beads Imprinted Polymers for Sensitive and Rapid Detection of Bispyribac Herbicide as Organic Pollutant. <i>Molecules</i> , 2019 , 24,	4.8	17
51	Novel Aminoacridine Sensors Based on Molecularly Imprinted Hybrid Polymeric Membranes for Static and Hydrodynamic Drug Quality Control Monitoring. <i>Materials</i> , 2019 , 12,	3.5	5
50	Efficient and fast microwave sorption of heavy metals on nanosilica sorbents-microwave immobilized-vitamin C and vitamin L1. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102850	6.8	10
49	Mimicking new receptors based on molecular imprinting and their application to potentiometric assessment of 2,4-dichlorophenol as a food taint. <i>Food Chemistry</i> , 2018 , 250, 188-196	8.5	29
48	Solid-contact potentiometric sensors for reliable automatic quantification of 2,4-dichlorophenol (2,4-DCP) as a food taint. <i>Measurement Science and Technology</i> , 2018 , 29, 105102	2	3
47	A paper-based potentiometric sensing platform based on molecularly imprinted nanobeads for determination of bisphenol A. <i>Analytical Methods</i> , 2018 , 10, 3890-3895	3.2	40

46	Status of electronic waste recycling techniques: a review. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16533-16547	5.1	78
45	Potentiometric detection of low-levels of sulfamethazine in milk and pharmaceutical formulations using novel plastic membrane sensors. <i>Journal of Electrochemical Science and Engineering</i> , 2018 , 9, 17-26 ^{1.9}		2
44	Development of microwave-assisted functionalized nanosilicas for instantaneous removal of heavy metals. <i>Powder Technology</i> , 2018 , 326, 454-466	5.2	23
43	Cost-effective and handmade paper-based potentiometric sensing platform for piperidine determination. <i>Analytical Methods</i> , 2018 , 10, 5406-5415	3.2	15
42	Novel Flow-through Potentiometric System for Dimethylamine Assessment Using New Ion Exchangers Doped-polymeric Membrane Sensors. <i>Electroanalysis</i> , 2018 , 30, 2635-2643	3	1
41	Fast microwave-assisted sorption of heavy metals on the surface of nanosilica-functionalized-glycine and reduced glutathione. <i>Bioresource Technology</i> , 2018 , 264, 228-237	11	16
40	Automatic potentiometric system for quantification of three imidazole derivatives based on new polymeric PVC membrane sensors. <i>Ionics</i> , 2017 , 23, 2201-2211	2.7	2
39	Response characteristics of lead-selective membrane sensors based on a newly synthesized quinoxaline derivatives as neutral carrier ionophores. <i>Ionics</i> , 2017 , 23, 3497-3506	2.7	4
38	Solid Contact Potentiometric Sensors Based on Host-Tailored Molecularly Imprinted Polymers for Creatine Assessment. <i>International Journal of Electrochemical Science</i> , 2016 , 8938-8949	2.2	33
37	New potentiometric transducer based on a Mn(II) [2-formylquinoline thiosemicarbazone] complex for static and hydrodynamic assessment of azides. <i>Talanta</i> , 2015 , 144, 1085-90	6.2	10
36	Potential transducers based man-tailored biomimetic sensors for selective recognition of dextromethorphan as an antitussive drug. <i>Materials Science and Engineering C</i> , 2015 , 54, 217-24	8.3	33
35	Fabrication of novel sensors based on a synthesized acyclic pyridine derivative ionophore for potentiometric monitoring of copper. <i>Analytical Methods</i> , 2014 , 6, 7814-7822	3.2	8
34	Flow-Through Potentiometric Sensors for Alizarin Red S Dye and Their Application for Aluminum Determination. <i>Journal of the Chinese Chemical Society</i> , 2014 , 61, 295-302	1.5	7
33	New Potentiometric Sensors for Picrate Determination Using Flow-Through System: Application to Kinetic Assessment of Se(IV). <i>Electroanalysis</i> , 2013 , 25, 793-801	3	5
32	New potentiometric sensors based on selective recognition sites for determination of ephedrine in some pharmaceuticals and biological fluids. <i>Talanta</i> , 2013 , 103, 330-6	6.2	27
31	Flow through potentiometric sensors based on molecularly imprinted polymers for selective monitoring of mepiquat residue, a quaternary ammonium herbicide. <i>Analytical Methods</i> , 2012 , 4, 3007	3.2	25
30	Mimicking a Receptor for Cyanide Ion Based on Ion Imprinting and Its Applications in Potential Transduction. <i>Electroanalysis</i> , 2012 , 24, 1409-1415	3	11
29	Biomimetic ciprofloxacin sensors made of molecularly imprinted network receptors for potential measurements. <i>Analytical Methods</i> , 2011 , 3, 957	3.2	23

28	Molecularly-Imprinted Materials for Potentiometric Transduction: Application to the Antibiotic Enrofloxacin. <i>Analytical Letters</i> , 2011 , 44, 2107-2123	2.2	12
27	A Solid Binding Matrix/Mimic Receptor-Based Sensor System for Trace Level Determination of Iron Using Potential Measurements. <i>International Journal of Electrochemistry</i> , 2011 , 2011, 1-10	2.4	4
26	Biomimetic Sensor Potentiometric System for Doxycycline Antibiotic Using a Molecularly Imprinted Polymer as an Artificial Recognition Element. <i>Sensor Letters</i> , 2011 , 9, 1654-1660	0.9	11
25	Batch and hydrodynamic monitoring of vitamin C using novel periodate selective sensors based on a newly synthesized Ni(II)-Schiff bases complexes as a neutral receptors. <i>Talanta</i> , 2010 , 80, 1356-63	6.2	9
24	New biomimetic sensors for the determination of tetracycline in biological samples: Batch and flow mode operations. <i>Analytical Methods</i> , 2010 , 2, 2039	3.2	26
23	Man-tailored biomimetic sensor of molecularly imprinted materials for the potentiometric measurement of oxytetracycline. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 566-74	11.8	48
22	Response Characteristics of Copper-Selective Polymer Membrane Electrodes Based on a Newly Synthesized Macrocyclic Calix[4]arene Derivative as a Neutral Carrier Ionophore. <i>Electroanalysis</i> , 2010 , 22, 2453-2459	3	10
21	New potentiometric sensors based on two competitive recognition sites for determining tetracycline residues using flow-through system. <i>Procedia Engineering</i> , 2010 , 5, 1200-1203		12
20	FIA potentiometric system based on periodate polymeric membrane sensors for the assessment of ascorbic acid in commercial drinks. <i>Food Chemistry</i> , 2010 , 120, 934-939	8.5	19
19	Flow-Through Assay of Quinine Using Solid Contact Potentiometric Sensors Based on Molecularly Imprinted Polymers. <i>Electroanalysis</i> , 2009 , 21, 2701-2708	3	26
18	A simple-potentiometric method for determination of acid and alkaline phosphatase enzymes in biological fluids and dairy products using a nitrophenylphosphate plastic membrane sensor. <i>Analytica Chimica Acta</i> , 2009 , 640, 75-81	6.6	43
17	Sulfadiazine-potentiometric sensors for flow and batch determinations of sulfadiazine in drugs and biological fluids. <i>Analytical Sciences</i> , 2009 , 25, 365-71	1.7	30
16	A novel poly(vinyl chloride) matrix membrane sensor for batch and flow-injection determinations of thiocyanate, cyanide and some metal ions. <i>Analytical Sciences</i> , 2009 , 25, 911-7	1.7	28
15	Novel Potentiometric Sensors of Molecular Imprinted Polymers for Specific Binding of Chlormequat. <i>Electroanalysis</i> , 2008 , 20, 194-202	3	45
14	Development of a Novel Automatic Potentiometric System for Determination of Selenium and Its Application in Pharmaceutical Formulations and Anodic Slime. <i>Electroanalysis</i> , 2008 , 20, 1016-1023	3	4
13	Electrochemical determination of antioxidant capacities in flavored waters by guanine and adenine biosensors. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 591-9	11.8	40
12	A Novel Flow-Through Planar Solid Contact Sensor for the Determination of Lead with Potentiometric Anionic Response. <i>Electroanalysis</i> , 2007 , 19, 2419-2427	3	3
11	Conventional and planar chip sensors for potentiometric assay of uric acid in biological fluids using flow injection analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 45, 341-8	3.5	12

10	Mercury(II) ion-selective polymeric membrane sensors for analysis of mercury in hazardous wastes. <i>Analytical Sciences</i> , 2006 , 22, 877-81	1.7	26
9	A novel spectrophotometric method for batch and flow injection determination of sulfite in beverages. <i>Analytica Chimica Acta</i> , 2006 , 570, 232-9	6.6	83
8	Continuous potentiometric monitoring of viagra (sildenafil) in pharmaceutical preparations using novel membrane sensors. <i>Journal of Applied Electrochemistry</i> , 2006 , 36, 139-146	2.6	20
7	Novel potentiometric copper (II) selective membrane sensors based on cyclic tetrapeptide derivatives as neutral ionophores. <i>Talanta</i> , 2005 , 66, 1034-41	6.2	40
6	Flow injection fluorimetric determination of chromium(VI) in electroplating baths by luminescence quenching of tris(2,2' bipyridyl) ruthenium(II). <i>Talanta</i> , 2005 , 67, 696-702	6.2	21
5	Novel Biomedical Sensors for Flow Injection Potentiometric Determination of Creatinine in Human Serum. <i>Electroanalysis</i> , 2005 , 17, 2246-2253	3	34
4	Novel Dicyanoargentate Polymeric Membrane Sensors for Selective Determination of Cyanide Ions. <i>Electroanalysis</i> , 2004 , 16, 298-303	3	23
3	Novel thiocyanate-selective membrane sensors based on di-, tetra-, and hexa-imidepyridine ionophores. <i>Analytica Chimica Acta</i> , 2003 , 482, 9-18	6.6	55
2	New lead (II) selective membrane potentiometric sensors based on chiral 2,6-bis-pyridinecarboximide derivatives. <i>Talanta</i> , 2003 , 60, 81-91	6.2	61
1	Removal of barium and strontium from wastewater and radioactive wastes using a green bioadsorbent, <i>Salvadora persica</i> (Miswak) 192 , 306-314		5