

Mohamed K Abd El-Rahman

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

945
citations

471061

17
h-index

500791

28
g-index

57
all docs

57
docs citations

57
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper-based potentiometric sensing of free bilirubin in blood serum. <i>Biosensors and Bioelectronics</i> , 2019, 126, 115-121.	5.3	72
2	Ion sensing with thread-based potentiometric electrodes. <i>Lab on A Chip</i> , 2018, 18, 2279-2290.	3.1	61
3	Design of a stable solid-contact ion-selective electrode based on polyaniline nanoparticles as ion-to-electron transducer for application in process analytical technology as a real-time analyzer. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 14-21.	4.0	57
4	In Situ Sensing of the Neurotransmitter Acetylcholine in a Dynamic Range of 1 nM to 1 mM. <i>ACS Sensors</i> , 2018, 3, 2581-2589.	4.0	52
5	Investigation of the host-guest complexation between 4-sulfocalix[4]arene and nedaplatin for potential use in drug delivery. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 193, 528-536.	2.0	45
6	Novel potentiometric application for the determination of pantoprazole sodium and itopride hydrochloride in their pure and combined dosage form. <i>Talanta</i> , 2015, 138, 28-35.	2.9	42
7	Just-Dip-It (Potentiometric Ion-Selective Electrode): An Innovative Way of Greening Analytical Chemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3122-3132.	3.2	41
8	Comparative study of 2-hydroxy propyl beta cyclodextrin and calixarene as ionophores in potentiometric ion-selective electrodes for neostigmine bromide. <i>Talanta</i> , 2011, 85, 913-918.	2.9	38
9	Strategy for Fabrication of Stable Tramadol Solid-Contact Ion-Selective Potentiometric Sensor Based on Polyaniline Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2015, 162, H1-H5.	1.3	36
10	Novel strategy for online monitoring of the degradation kinetics of propantheline bromide via a calixarene-based ion-selective electrode. <i>Talanta</i> , 2015, 132, 52-58.	2.9	31
11	Development and Characterization of Cellulose/Iron Acetate Nanofibers for Bone Tissue Engineering Applications. <i>Polymers</i> , 2021, 13, 1339.	2.0	27
12	A novel approach for spectrophotometric determination of succinylcholine in pharmaceutical formulation via host-guest complexation with water-soluble p-sulfonatocalixarene. <i>RSC Advances</i> , 2015, 5, 62469-62476.	1.7	24
13	Attenuated Total Reflectance Fourier Transformation Infrared spectroscopy fingerprinted online monitoring of the kinetics of circulating Butyrylcholinesterase enzyme during metabolism of bambuterol. <i>Analytica Chimica Acta</i> , 2018, 1005, 70-80.	2.6	22
14	Ion selective electrode (in-line analyzer) versus UV-spectroscopy (at-line analyzer); which strategy offers more opportunities for real time monitoring of the degradation kinetics of pyridostigmine bromide. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 255-262.	4.0	21
15	Stability-indicating spectrophotometric and spectrodensitometric methods for the determination of diacerein in the presence of its degradation product. <i>Drug Testing and Analysis</i> , 2011, 3, 221-227.	1.6	20
16	Hydrolysis in Acidic Environment and Degradation of Satraplatin: A Joint Experimental and Theoretical Investigation. <i>Inorganic Chemistry</i> , 2017, 56, 6013-6026.	1.9	20
17	Ionic liquid-based reference electrodes for miniaturized ion sensors: What can go wrong?. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127112.	4.0	20
18	Spectrophotometric and spectrodensitometric methods for the determination of rivastigmine hydrogen tartrate in presence of its degradation product. <i>Drug Testing and Analysis</i> , 2010, 2, 225-233.	1.6	17

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19	Inline potentiometric monitoring of Butyrylcholinesterase activity based on metabolism of bambuterol at the point of care. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 216-223.	4.0	17
20	Resolution V fractional factorial design for screening of factors affecting weakly basic drugs liposomal systems. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 119, 249-258.	1.9	16
21	Microfabricated potentiometric sensor for personalized methacholine challenge tests during the COVID-19 pandemic. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113439.	5.3	16
22	Application of normalized spectra in resolving a challenging Orphenadrine and Paracetamol binary mixture. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 21-30.	2.0	15
23	Optimization and in line potentiometric monitoring of enhanced photocatalytic degradation kinetics of gemifloxacin using TiO ₂ nanoparticles/H ₂ O ₂ . <i>Environmental Science and Pollution Research</i> , 2017, 24, 23880-23892.	2.7	15
24	Spectrophotometric determination of choline in pharmaceutical formulations via host-guest complexation with a biomimetic calixarene receptor. <i>Microchemical Journal</i> , 2019, 146, 735-741.	2.3	14
25	Double-Track Electrochemical Green Approach for Simultaneous Dissolution Profiling of Naproxen Sodium and Diphenhydramine Hydrochloride. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 146, 179-187.	1.4	13
26	Novel potentiometric application for the determination of amprolium HCl in its single and combined dosage form and in chicken liver. <i>Chinese Chemical Letters</i> , 2017, 28, 612-618.	4.8	12
27	Integrated Gold-Thiol Based Potentiometric Sensors for In Situ Dual Drug-Protein Binding Studies on Naproxen/Diphenhydramine Salts Model. <i>Journal of the Electrochemical Society</i> , 2017, 164, H1013-H1020.	1.3	12
28	A study on the physicochemical properties and cytotoxic activity of p-sulfocalix[4]arene-nedaplatin complex. <i>Journal of Physics: Conference Series</i> , 2019, 1310, 012011.	0.3	12
29	Chemical fingerprinting and quantitative monitoring of the doping drugs bambuterol and terbutaline in human urine samples using ATR-FTIR coupled with a PLSR chemometric tool. <i>RSC Advances</i> , 2020, 10, 7146-7154.	1.7	12
30	Novel choline selective electrochemical membrane sensor with application in milk powders and infant formulas. <i>Talanta</i> , 2021, 221, 121409.	2.9	12
31	A point of care screen printed potentiometric sensor for therapeutic monitoring of vecuronium. <i>Microchemical Journal</i> , 2019, 147, 532-537.	2.3	11
32	Stability indicating spectrophotometric and spectrodensitometric methods for the determination of diatrizoate sodium in presence of its degradation product. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1167-1174.	2.0	10
33	A comparative study of two analytical techniques for the simultaneous determination of amprolium HCl and ethopabate from combined dosage form and in presence of their alkaline degradation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118756.	2.0	10
34	Electrochemical Sensing of Carbachol in Ophthalmic Solutions. <i>Journal of the Electrochemical Society</i> , 2018, 165, B835-B839.	1.3	9
35	Screen Printed Ion Selective Electrodes as a Fully Integrated PAT Tool: Application to the Analysis and Impurity Profiling of Diatrizoate Sodium. <i>Journal of the Electrochemical Society</i> , 2018, 165, B323-B327.	1.3	9
36	Membrane Electrodes for the Determination of Pyridostigmine Bromide. <i>Journal of AOAC INTERNATIONAL</i> , 2009, 92, 1631-1638.	0.7	8

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37	Screen printed potentiometric sensor for therapeutic monitoring of rocuronium at the point of care. <i>Talanta</i> , 2019, 196, 137-144.	2.9	8
38	Development of Potentiometric Method for In Situ Testing of Terbinafine HCl Dissolution Behavior Using Liquid Inner Contact Ion-Selective Electrode Membrane. <i>Journal of the Electrochemical Society</i> , 2018, 165, B143-B149.	1.3	7
39	Double-Dip Approach: Simultaneous Dissolution Profiling of Pseudoephedrine and Ibuprofen in a Combined Dosage Form by Ion Selective Electrodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, H999-H1003.	1.3	6
40	Real Time Selective Monitoring of the Dissolution Behavior of Pseudoephedrine Sulfate and Loratadine in Their Binary and Ternary Dosage Form by Utilization of In-Line Potentiometric Sensor. <i>Journal of the Electrochemical Society</i> , 2019, 166, B610-B617.	1.3	6
41	A comparative study of liquid and solid inner contact roxatidine acetate ion-selective electrode membranes. <i>Chinese Chemical Letters</i> , 2015, 26, 714-720.	4.8	5
42	Real-time potentiometric sensor; an innovative tool for monitoring hydrolysis of chemo/bio-degradable drugs in pharmaceutical sciences. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 154, 166-173.	1.4	5
43	Smart Spectral Processing of Data for the estimation of Commonly Used Over-the-counter (OTC) Co-formulated drug; Pseudoephedrine hydrochloride and Ibuprofen. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117322.	2.0	5
44	A comparative study between three stability indicating spectrophotometric methods for the determination of diatrizoate sodium in presence of its cytotoxic degradation product based on two-wavelength selection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 254-259.	2.0	4
45	Smart manipulation of ratio spectra for resolving a pharmaceutical mixture of Methocarbamol and Paracetamol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 141, 1-9.	2.0	4
46	UV-spectrophotometry versus HPLC-PDA for dual-drug dissolution profiling: which technique provides a closer step towards green biowaiver concept? Novel application on the recent FDA-approved mixture Aleve pm. <i>Chemical Papers</i> , 2019, 73, 309-319.	1.0	4
47	Three Different Spectrophotometric Methods Exploiting Ratio Spectra for the Selective Determination of Iohexol in the Presence of its Acidic Degradate. <i>Current Pharmaceutical Analysis</i> , 2018, 14, 627-634.	0.3	4
48	Miniaturized Membrane Sensors for the Determination of Orphenadrine Citrate. <i>Portugaliae Electrochimica Acta</i> , 2011, 29, 165-176.	0.4	4
49	A single novel PVC membrane for dual determination of sulphadimethoxine and malachite green in aquatic environment. <i>Arabian Journal of Chemistry</i> , 2015, 8, 787-792.	2.3	3
50	A New Platform for Profiling Degradation-Related Impurities Via Exploiting the Opportunities Offered by Ion-Selective Electrodes: Determination of Both Diatrizoate Sodium and Its Cytotoxic Degradation Product. <i>Journal of AOAC INTERNATIONAL</i> , 2018, 101, 723-731.	0.7	3
51	Potentiometric Sensing of Valaciclovir Hydrochloride in the Presence of Its Acid Induced Degradation Product with Real Time Acquisition of the Dissolution Profile from Its Pharmaceutical Formulations. <i>Journal of the Electrochemical Society</i> , 2019, 166, B866-B872.	1.3	3
52	Monitoring of the degradation kinetics of diatrizoate sodium to its cytotoxic degradant using a stability-indicating high-performance liquid chromatographic method. <i>Biomedical Chromatography</i> , 2017, 31, e3799.	0.8	2
53	Synchronous UPLC Resolution of Aceclofenac and Diacerin in Their Powdered Forms and Matrix Formulation: Stability Study. <i>Journal of Chromatographic Science</i> , 2020, 58, 622-628.	0.7	2
54	A Novel in Situ Electrochemical Strategy for Gatifloxacin Microdetermination in Urine Using Solid Contact and Disposal Screen-Printed Electrodes: a Comparative Study. <i>Journal of Analytical Chemistry</i> , 2021, 76, 243-251.	0.4	1

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55	A Companion Diagnostic for Personalizing Mivacurium at the Point-of-Care. Journal of the Electrochemical Society, 2020, 167, 087510.	1.3	0
56	Application of ICH Guidelines for Studying the Degradation Behavior of Rocuronium Bromide Coupled with Stability-Indicating RP-LC Method. Journal of Chromatographic Science, 2021, , .	0.7	0