



Department	Pharmaceutical Analytical Chemistry
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Publications

	Publication title	Journal name/ year	Authors from department	Authors from other departments, faculties, or universities and their affiliation	Journal quartile	Impact factor
1.	A novel copper oxide–MWCNTs nanocomposite graphite sensor: the first synergistic and eco-friendly potentiometric platform for edaravone monitoring in human plasma	Microchemical Journal, 2026	Nermine V. Fares , Yara Y. Ali , Mahmoud M. Abbas , Miriam F. Ayad	-----	Q1	5.1
2.	Understanding Analytical Methods Assessment Metrics: A Two Decades' Simple and Comprehensive Review (2006–2025)	Analytical Chemistry, 2026	Samy G. Alamir	Adel Ehab Ibrahim, Nesrine Abdelrehim El Gohary, Liza Samir, Shereen Ekram Abdel Karim, Magy Herz, Galal Magdy, Baher I. Salman, Ahmed Al-Harrasi Natural and Medical Sciences Research Center, University of Nizwa Pharmaceutical Chemistry Department, Faculty of Pharmacy and Biotechnology, German	Q1	6.7



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				University in Cairo		
3.	<p>Divulging the hidden risks of trace and heavy elements in sports nutritional supplements; a comprehensive study targeted with health risk evaluation</p>	<p>Journal of Trace Elements in Medicine and Biology, 2026</p>	<p>Samy G. Alamir</p>	<p>Adel Ehab Ibrahim, Mohamed Al-Omairi, Galal Magdy, Hany A. Batakoushy, Ahmed Al-Harrasi</p> <p>Natural and Medical Sciences Research Center, University of Nizwa</p> <p>Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Kafr-Elsheikh University</p>	<p>Q1</p>	<p>3.3</p>
4.	<p>Exploring lactoferrin as an innovative covalently immobilized chiral selector for the selective separation of pharmaceutical enantiomers using HPLC</p>	<p>Analytica Chimica Acta, 2026</p>	<p>Samy G. Alamir</p>	<p>Adel Ehab Ibrahim, Ghanem Al-Thani, Sami El Deeb, Ahmed Al-Harrasi</p> <p>Natural and Medical Sciences Research Center, University of Nizwa</p> <p>Institute of Medicinal and</p>	<p>Q1</p>	<p>6</p>



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				Pharmaceutical Chemistry, Technische Universitaet Braunschweig		
5.	Multifaceted boron nitride nanomaterials: a comprehensive review of synthesis, property engineering and multidisciplinary applications	Royal Society of Chemistry, 2026	Samy G. Alamir	Reveka Kushwah, Sulaiman Al-Sulaimi, Ahmed Al-Harrasi, Adel Ehab Ibrahim Natural and Medical Sciences Research Center, University of Nizwa Department of Biological Science and Chemistry, University of Nizwa	Q1	4.6
6.	Sensitive voltammetric detection of bosentan using gold nanoparticles-decorated pencil graphite electrode in pharmaceutical formulations and plasma samples	Scientific Reports, 2026	Reham A. Ismail, Miriam F. Ayad, Lobna A. Hussein & Yossra A. Trabik	Amr M. Mahmoud Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Cairo University	Q1	3.9
7.	Silver nanoparticles-based green fluorescent probe for determination of Bosentan in pharmaceutical formulation and spiked plasma samples	BMC chemistry, 2026	Reham A. Ismail, Miriam F. Ayad, Lobna A. Hussein & Yossra A. Trabik	-----	Q2	4.6



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8.	Toward Practical and Sensitive Fluorescence Analysis: Factorial Design-Optimized o-Phthalaldehyde Derivatization for Synchronous Spectrofluorimetric Determination of Modafinil in Plasma and Dosage Form	Luminescence, 2025	Nermine V. Fares , Yara Y. Ali , Mahmoud M. Abbas , Miriam F. Ayad	-----	Q2	3
9.	Surfactant-assisted nanocomposite pencil graphite electrode: A green, practical approach for electrochemical monitoring of Riluzole in different matrice	Microchemical Journal, 2025	Nermine V. Fares , Yara Y. Ali , Mahmoud M. Abbas , Miriam F. Ayad	-----	Q1	5.1
10.	Mass spectrometry and enzyme assays refute histone tyrosine sulfation	Nature Chemical Biology, 2025	Menatallah M. Youssef, Miriam F. Ayad, Lobna A. Hussein, Maha F. Abdel-Ghany	Carson W. Szot, Ryan C. Bailey, Kristina Hakansn, Ahmed M. Mostafa Department of Chemistry, University of Michigan and Department of Biochemistry, Faculty of Pharmacy	Q1	13.7
11.	Ultrasensitive and rapid dopamine sensing via turn-on fluorescence of a dual-ligand Tb-MOF: Towards point-of-care neurochemical monitoring	Talanta, 2025	Nardine Safwat, Miriam F. Ayad, Maha F. Abdel-Ghany,	Amr M. Mahmoud, Mohammed M. Gomaa Department of Pharmaceutical Chemistry, Faculty of	Q1	3.7



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			Hend Z. Yamani	Pharmacy, cairo University Solid State Physics Department, National Research Centre		
12.	Micellar-enhanced synchronous spectrofluorimetric determination of anticancer trans-Resveratrol: a sustainable quality control tool for dietary supplements integrating circular analytical chemistry in the post-reform FDA era	Microchemical Journal, 2025	Sarah H. Abdelaal, Noha F. El Azab, Amira M. El-Kosasy	Said A. Hassan Department of Pharmaceutical Chemistry, Faculty of Pharmacy, cairo University	Q1	5.1
13.	A new era in dietary supplement regulation: sustainable chemometric approach for quality control of four dietary ingredients in slimming preparations	Journal of Food Composition and Analysis, 2025	Sarah H. Abdelaal, Noha F. El Azab, Amira M. El-Kosasy	-----	Q1	4.6
14.	The role of superlattice phases and interparticle distance in the magnetic behaviour of SPION thin films	Royal Society of Chemistry, 2025	Sherif Okeil	Marion Görke, Guohui Yang, Hermann Nirschl, Thilo Viereck, Georg Garnweitner Institute for Particle Technology (iPAT) and Institute for Electrical Measurement Science and Fundamental Electrical Engineering	Q1	4.6



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				(emg), Technische Universität Braunschweig		
15.	DiPTH-Cystine and PTH-Cysteine in Disulfide Bond Analysis Using Automated Edman Degradation	Journal of peptide science, 2025	Yomnah Y. Elsayed	Toni Kühl, Alexander Terekhov, Diana Imhof Pharmaceutical Biochemistry and Bioanalytics, University of Bonn	Q3	1.8
16.	Tuning Elemental Distribution in FePt Nanoparticles through Ligand Ratio Variation	Crystal Growth & Design, 2025	Sherif Okeil	Marion Görke, Daesung Park, Thilo Viereck, Georg Garnweitner Institute for Particle Technology (iPAT) and Laboratory for Emerging Nanometrology (LENA), Technische Universität Braunschweig	Q2	3.4
17.	Exploring stationary phase morphologies as pathways to greener and faster LC for analyzing sofosbuvir and ledipasvir	Scientific Reports, 2025	Samy G. Alamir	Adel Ehab Ibrahim, Baher I. Salman, Sami El Deeb & Ahmed Al-Harrasi Institute of Medicinal and Pharmaceutical Chemistry, Technische	Q1	3.9



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				Universitaet Braunschweig Natural and Medical Sciences Research Center, University of Nizwa		
18.	A quality-by-design optimized LC method for navigating degradation kinetics and quantification of favipiravir in the presence of degradation products and manufacturing impurities	BMC chemistry, 2025	Samy G. Alamir	Adel Ehab Ibrahim, Mohamed Farouk, Baher I. Salman, Tarek S. Belal, Sami El Deeb & Ahmed Al-Harrasi Natural and Medical Sciences Research Center, University of Nizwa	Q2	4.6
19.	Sensitive RP-HPLC method with fluorimetric detection for concurrent quantification of emtricitabine, Daclatasvir and Ledipasvir in human urine	Scientific Reports, 2025	Aya A. Youssef, N. Magdy, Lobna A. Hussein & A. M. El-Kosasy	-----	Q1	3.9
20.	Arduino-based portable point-of-care colorimetric glucose biosensor using nanozyme with enhanced peroxidase-like activity	Talanta open, 2025	Nardine Safwat	Ola G. Hussein, Amr M. Mahmoud, Aya A. Mouhamed, Yan Dou, Qiong Nian School of Engineering for Matter, Transport and Energy,	Q2	3.7



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				Arizona State University, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Future and Cairo University		
21.	Development of terbium-based fluorescence probe for Vericiguat quantitation in tablets and human plasma through advanced computational approaches	Microchemical Journal, 2025	Noha F El Azab, Nancy Magdy	Doaa M Mustafa Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Ain Shams University	Q1	5.1
22.	Enhanced sensitivity in Empagliflozin detection: A voltammetric sensor with molecularly imprinted graphite film for analyzing pharmaceuticals and biological fluids	Microchemical Journal, 2025	Noha F El Azab, Sherin M Alqirsh, Nancy Magdy, Maha F Abdel-Ghany	-----	Q1	5.1
23.	Synergistically enhanced Ni-MOF/CNTs nanocomposite as an electrochemical platform for ultrasensitive determination of sotagliflozin in various matrices, with whiteness and blueness assessments	Microchimica Acta, 2025	Hend Z Yamani, Yasmine H Hassan, Nancy Magdy, Maha F Abdel Ghany,	Mohammed M Gomaa Solid State Physics Department, National Research Centre	Q1	5.4
24.	Bioanalytically validated potentiometric method for determination of bisphenol A: Application to baby bibs,	Reviews in Analytical Chemistry, 2025	Amira Mabrouk El-Kosasy, Yossra A Trabik	Eman Ali Department of Chemistry,	Q1	5.2



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	pacifiers, and Teethers' saliva samples			Faculty of Science, Taibah University		
25.	Design of a core-shell molecularly imprinted polymer for highly selective detection of daclatasvir dihydrochloride in tablets and human plasma	Microchemical Journal, 2025	Noha F El Azab, Yossra A Trabik	Sally S. El-Mosallamy , Amr M. Mahmoud Analytical Chemistry Department, Faculty of Pharmacy, Cairo University	Q1	5.1
26.	Tuning Elemental Distribution in FePt Nanoparticles through Ligand Ratio Variation	Crystal Growth & Design, 2025	Sherif Okeil	Marion Görke, Daesung Park, Thilo Viereck, Georg Garnweitner Technische Universität Braunschweig, Germany	Q2	3.2
27.	The role of superlattice phases and interparticle distance in the magnetic behaviour of SPION thin films	Nanoscale, 2025	Sherif Okeil	Marion Görke , Guohui Yang, Hermann Nirschl, Thilo Viereck, Georg Garnweitner Technische Universität Braunschweig, Germany	Q1	5.1
28.	A stability-indicating potentiometric platform for assaying Metoprolol succinate and felodipine in	BMC chemistry, 2025	Nermine V. Fares, Maha F. Abd El Ghany,	Haitham A. El Fiky, Dina A. Ahmed, Amr M. Badawey &	Q2	4.6



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	their tablets and human plasma			Mahmoud A. Tantawy Faculty of Pharmacy, Future University in Egypt		
29.	Molecular imprinted polymer-based potentiometric approach for the determination of carvedilol and ivabradine hydrochloride in dosage form, spiked human plasma and in presence of their oxidative degradates	BMC chemistry, 2025	Nermine V. Fares, Maha F. Abd El Ghany,	Haitham A. El Fiky, Dina A. Ahmed, Amr M. Badawey & Mahmoud A. Tantawy Faculty of Pharmacy, Future University in Egypt	Q2	4.6
30.	Validated HPLC method for simultaneous determination of azelastine hydrochloride fluticasone propionate and oxymetazoline in nasal mucosa and nasopharyngeal swabs from real human samples	Scientific Reports, 2025	Marwa H. Mohamed Neven N. Mikawy Nancy Magdy Amira M. Elkosasy	-----	Q1	3.9
31.	Determination of chlorpyrifos using GC-FID in pesticides and human plasma; method validation with greenness assessment	Accreditation and Quality Assurance, 2025	Samy G. Alamir	Kumaraswamy Gandla, Adel Ehab Ibrahim, Ghanem Al-Thani, Baher I. Salman, Ahmed Al-Harrasi & Sami El Deeb Natural and Medical Sciences	Q3	1



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				Research Center, University of Nizwa		
32.	The Interplay of Selenium and Human Health	Recent Advances in Thyroid Disorders book, 2025	Samy G. Alamir	Ahmed Al-Harrasi, Adel Ehab Ibrahim Natural and Medical Sciences Research Center, University of Nizwa		
33.	An eco-friendly HPLC method for the sustainable analysis of the newly approved combinations of Alfuzosin and Tamsulosin, with Tadalafil in organic-solvent-free mixed-micellar systems	Analyst, 2025	Samy G. Alamir	Adel Ehab Ibrahim, Ahmed Al-Harrasi, Baher I. Salman, Emad Mahmoud Abdelhalim Heba M. El-Sayed Natural and Medical Sciences Research Center, University of Nizwa	Q2	3.3
34.	Experimental Design Utilizing Mixed Micellar Monolithic Liquid Chromatography and Ethanol for Rapid Simultaneous Determination of Four Antipsoriatics: A Blue-Green Approach	Separation Science Plus, 2025	Samy G. Alamir, Nancy Magdy, Lobna A. Hussein, Nermine V. Fares	Adel Ehab Natural and Medical Sciences Research Center, University of Nizwa	Q3	1.6
35.	Simultaneous determination of favipiravir and molnupiravir using TLC with smartphone image processing: applications in	Microchemical Journal, 2025	Maha F. Abdel Ghany, Mahmoud M. Abbas	Menna S. ElSherbiny, Sherif M. Eid, Khadiga M. Kelani, Ahmed El-Olemy,	Q1	5.1



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	pharmaceuticals and environmental matrices			Mohamed A. Hasan Faculty of Pharmacy, Modern University for Technology and Information		
36.	Regulatory Guidelines for the Analysis of Therapeutic Peptides and Proteins	Journal of Peptide Science, 2025	Yomnah Y. Elsayed	Toni Kühl, Diana Imhof Pharmaceutical Biochemistry and Bioanalytics, University of Bonn	Q3	1.8
37.	First fluorescence method for monitoring the doping stimulant drug solriamfetol in plasma and urine: A pharmacokinetic study in volunteers' urine with greenness, whiteness, and blueness assessments	Microchemical Journal, 2024	Marina Z Kamel, Hend Z Yamani, Lobna A Hussein, Yossra A Trabik	-----	Q1	5.1
38.	An Environmentally Friendly Chromatographic Technique for Estimating Four Co-Administered Medications in Solid Dosage Forms and Human Plasma for the Treatment of Benign Prostatic Hyperplasia	Archives of Pharmaceutical Sciences Ain Shams University, 2024	Mai Zahra, Yossra Trabik, Nancy Hana, Maha Farouk	-----	-----	-----
39.	Established Sulfopeptide Tandem Mass Spectrometry Behavior and Sulfotransferase Assays Refute Tyrosine Sulfation as a Histone Mark	bioRxiv, 2024	Menatallah M. Youssef, Miriam F. Ayad, Lobna A. Hussein, Maha F. Abdel-Ghany	Carson W. Szot, Ryan C. Bailey, Kristina Hakansn, Ahmed M. Mostafa Department of Chemistry,	-----	-----



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				University of Michigan and Department of Biochemistry, Faculty of Pharmacy		
40.	Innovative Pharmaceutical Stabilization and Formulation Processes for Protein Drugs and Their Impact on Sequence and Structure. Part: Analytics	Springer nature books, 2024	Yomnah Y. Elsayed	Toni Kühl, Diana Imhof Pharmaceutical Biochemistry and Bioanalytics, University of Bonn		
41.	Ion Selective Electrodes With Ionophore-Doped Sensing Membranes And Graphene Nanoplatelets For Determination Of Azelastine HCl In Nasal Spray And Plasma	Archives of Pharmaceutical Sciences Ain Shams University, 2024	Marwa H. Mohamed Neven N. Mikawy Nancy Magdy Amira M. Elkosasy	-----	-----	-----
42.	An ultrasensitive green synchronous factorized spectrofluorimetric approach for the simultaneous determination of Favipiravir and Molnupiravir: Application to pharmaceutical, environmental, and biological matrices	Luminescence, 2024	Maha F. Abdel Ghany, Mahmoud M. Abbas	Menna S. ElSherbiny, Sherif M. Eid, Khadiga M. Kelani, Ahmed El-Olemy, Mohamed A. Hasan Faculty of Pharmacy, Modern University for Technology and Information	Q2	3.2
43.	Tracking the Variations in Trace and Heavy Elements in Smoking Products Marketed in Oman and Egypt: Risk Assessment	Biological Trace Element Research, 2024	Samy G. Alamir	Adel Ehab Ibrahim, Khaled Maged, Galal Magdy, Baher I.	Q1	3.7



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	After Implementation of Constraining Protocols			Salman, Ahmed Al-Harrasi Natural and Medical Sciences Research Center, University of Nizwa		
44.	Investigating Trace and Macro-element Composition of Herbal and Nutraceutical Dietary Supplements Marketed in Oman: Insights into Safety and Labeling	Biological Trace Element Research, 2024	Samy G. Alamir	Mohamed Al-Omairi, Baher I. Salman, Sami El Deeb, Yahya Bin Abdullah Alrashdi, Ahmed Al-Harrasi & Adel Ehab Ibrahim Natural and Medical Sciences Research Center, University of Nizwa	Q1	3.7
45.	Leveraging Green Chromatography in Quality-by-Design-Driven Study for the Simultaneous Analysis of Essential Single-Pill Antidiabetic Drug Combinations	Journal of Separation Science, 2024	Samy G. Alamir	Adel Ehab Ibrahim, Khaled Maged, Galal Magdy, Baher I. Salman, Ahmed Al-Harrasi Natural and Medical Sciences Research Center, University of Nizwa	Q2	2.8
46.	Green highly sensitive and selective spectroscopic detection of guaifenesin in multiple dosage forms and spiked human plasma	Scientific Reports, 2024	Neven N. Mikawy, Nancy Magdy, Marwa H. Mohamed & Amira M. El-Kosasy	-----	Q1	3.8

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47.	<p style="text-align: center;">Understanding the Role of Solvent on the Growth of Zinc Oxide: Insight from Experiment and Molecular Dynamics Simulations</p>	Langmuir, 2024	Sherif Okeil	<p style="text-align: center;">Sahar Rabet, Gerardo Valadez Huerta, Gabriele Raabe, Georg Garnweitner</p> <p style="text-align: center;">Universität Braunschweig, Germany</p>	Q2	3.7
48.	<p style="text-align: center;">Tuning the Properties of Iron Oxide Nanoparticles in Thermal Decomposition Synthesis: A Comparative Study of the Influence of Temperature, Ligand Length and Ligand Concentration</p>	particle and particle systems characterization, 2024	Sherif Okeil	<p style="text-align: center;">Marion Görke, Dirk Menzel, Bogdan Semenenko, Georg Garnweitner</p> <p style="text-align: center;">Universität Braunschweig, Germany</p>	Q2	3.4
49.	<p style="text-align: center;">Postprocedural morphology change of non-covalent nanoparticle-polymer hybrids from silica and self-assembled polystyrene-block-polyacrylic acid vesicles</p>	Nanocomposites, 2024	Sherif Okeil	<p style="text-align: center;">Jil Mann, Georg Garnweitner, Carsten Schilde</p> <p style="text-align: center;">Universität Braunschweig, Germany</p>	Q1	4.2
50.	<p style="text-align: center;">Development of All-Solid-State Potentiometric Sensors for Monitoring Carbendazim Residues in Oranges: A Degradation Kinetics Investigation</p>	Chemosensors, 2024	Yasmeen A. A. Hassan, Sherif Okeil, Miriam F. Ayad, Lobna A. Hussein and Nermine V. Fares	-----	Q1	3.7
51.	<p style="text-align: center;">Eco-friendly electrochemical assay of oxytetracycline and flunixin in their veterinary injections and spiked milk samples</p>	BMC Chemistry, 2024	Yossra A. Trabik, Miriam F. Ayad	<p style="text-align: center;">Amr M. Mahmoud</p> <p style="text-align: center;">Faculty of Pharmacy, Cairo University</p>	Q2	4.3



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				Hind A. Abdullatif & Adel M. Michael Faculty of Pharmacy, Ahram Canadian University		
52.	A bioanalytically validated RP-HPLC method for simultaneous quantification of rivaroxaban, paracetamol, and ceftriaxone in human plasma: a combination used for COVID-19 management	Scientific Reports, 2024	Reham A. Ismail, Miriam F. Ayad, Lobna A. Hussein & Yossra A. Trabik	-----	Q1	3.8
53.	First fluorescence method for monitoring the doping stimulant drug solriamfetol in plasma and urine: A pharmacokinetic study in volunteers' urine with greenness, whiteness, and blueness assessments	Microchemical Journal, 2024	Marina Z. Kamel, Hend Z. Yamani, Lobna A. Hussein, Yossra A. Trabik	-----	Q1	4.9