C.V.

Mohamed Said Attia Moustafa

Professor Dr. Mohamed Said Attia is a professor of analytical chemistry at the Faculty of Science, Ain Shams University. He is the General Supervisor of Nanotechnology Projects at Ain Shams University. He is also the leader of a research group in early disease diagnosis, especially cancer, using nano optical sensors at the Faculty of Science, Ain Shams University. He is a distinguished academic and researcher renowned for his pioneering work in the development and application of nano-optical sensors for disease diagnosis and environmental monitoring. A prolific author and editor, Attia has made significant contributions to the fields of chemistry, biochemistry, and nanotechnology. His academic journey, marked by a consistent pursuit of knowledge and innovation, has seen him excel as a professor, mentor, and industry collaborator. With a strong foundation in analytical chemistry, Attia's research has expanded to encompass the design and synthesis of novel nano luminescent materials, the development of advanced sensing platforms, and the application of these technologies to address critical healthcare and environmental challenges. His work on nano-optical sensors for the detection of biomarkers, contaminants, and pathogens has garnered international recognition. As an accomplished educator, Attia has supervised numerous Master's (75) and Ph.D (45) students, fostering a new generation of scientists dedicated to research and development. His dedication to knowledge dissemination is evident in his role as editor of several books on topics related to his expertise. Beyond academia, Attia has actively engaged in translating his research into practical applications through patents and collaborations with industry partners. His commitment to excellence, coupled with a passion for scientific discovery, has established him as a leading figure in his field, inspiring researchers and students alike to explore the frontiers of nanotechnology for the betterment of society.

Date of Birth	25/11/1978
Scientific Name	M. S. Attia Mohamed S. Attia Mohamed Said Attia
Address	Abou-Zabbal-Al Qalubia- Egypt
Telephone No.	01229867311/ 01060819022
Career	Professor of Analytical Chemistry
National ID	Al Qalubia (27811251403716)
Social Status	Married and have four children
E mail	Mohamed_sam@yahoo.com, saidattiasam78@gmail.com, mohd_mostafa@sci.asu.edu.eg
h-index	1563/ 29 (Scopus) https://071050htf-1106-y-https-www-scopus-com.mplbci.ekb.eg/authid/detail.uri?authorId=58285259200
Google Scholar Citations/ H. index:	https://scholar.google.com/citations?user=iGObJIsAAAAJ&hl=en 4715/41
LinkedIn	https://www.linkedin.com/in/mohamed-said-attia-5a338139/
Twitter (X)	https://twitter.com/Said12Mo

EDUCATION (Qualifications):

Faculty of Science, Ain Shams University
Professor of Photo-bioanalytical Chemistry, 2017
Faculty of Science, Ain Shams University
Associate Professor, bioanalytical photochemistry, 2012
Faculty of Science, Ain Shams University
Ph. D., in Inorganic Photo Chemistry, 2006
Faculty of Science, Ain Shams University
M. Sc., in Inorganic PhotoChemistry, 2002
Faculty of Science, Ain Shams University
B. Sc., in Chemistry, V. good with honor degree, 1999

EMPLOYMENT RECORD:

Faculty of Science, Ain Shams University
Professor of Analytical Chemistry, Jan 2017- till date
Faculty of Science, Ain Shams University
Associate Professor of Analytical photochemistry, Jan 2012- Dec 2016
Faculty of Science, in Shams University
Assist professor of analytical and inorganic photochemistry, Jan 2007- Jan 2012
Faculty of Science, Ain Shams University
Assist. Lecturer in Chemistry Department, Jan 2003- Dec 2006
Faculty of Science, Ain Shams University
Demonstrator in Chemistry Department, Sep 1999- Dec 2002

Attendance of Scientific Conferences

1-Keynote speaker: Chemistry Research and Global Challenges
"New kits based optical biosensor: Early diagnosis of cancer diseases and great potential for healthcare of patients"

4rd International Conference of Egyptian Committee for Pure and Applied Chemistry (ICPAC22), Chemistry Research and Global Challenges, 4-7- October, 2023, Marsa Alam, Egypt.

2-Keynote speaker: Chemistry and Climate Change
"Fluorescent Sensors for early diagnosis of cancer diseases"
-3rd International Conference of Egyptian Committee for Pure and Applied Chemistry (ICPAC22), Chemistry and Climate Change, 12-15- October, 2022, Hurghada, Egypt.

3-Oral speaker: 1st World Congress of NanoMedicine-2010 held in Beijing

- "Novel Spectrofluorimetric Method for Measuring the Activity of the Enzyme α-L-Fucosidase Using the Nano Composite Optical Sensor Samarium(III)-Doxycycline Complex Doped in Sol-Gel Matrix"

Track 4-8: Nanotechnology in Diagnostics-Nanoparticles in Imaging and Diagnostics, 1st World Congress of NanoMedicine-2010 held in Beijing, 23-25 October, 2010, China,

4-PITTCON 2010: held on Feb. 28 through March 5 at the Orange County Convention Center in Orlando. Organized annually by more than 100 volunteers and nine staff members, the conference is sponsored by the Spectroscopy Society of Pittsburgh and the Society for Analytical Chemists of Pittsburgh.

28 Feb-5 March 2010, USA. (Special invitation from American Chemical Society to attend this conference)

5-Chairman for the Fourth Session of (Sensors and biosensors)

-3rd International Conference of Egyptian Committee for Pure and Applied Chemistry (ICPAC22), Chemistry and Climate Change, 12-15- October, 2022, Hurghada, Egypt.

6-Chairman for the Fourth Session of (Sensors and biosensors)

-4rd International Conference of Egyptian Committee for Pure and Applied Chemistry (ICPAC22), Chemistry Research and Global Challenges, 4-7- October, 2023, Marsa Alam, Egypt.

(Member of Organizing and Scientific Committee)

7 -4rd International Conference of Egyptian Committee for Pure and Applied Chemistry (ICPAC22), Chemistry Research and Global Challenges, 4-7- October, 2023, Marsa Alam, Egypt.

8 -3rd International Conference of Egyptian Committee for Pure and Applied Chemistry (ICPAC22), Chemistry and Climate Change, 12-15- October, 2022, Hurghada, Egypt.

9-International conference on going nanogreen in a big way in cairo: “Nano/Molecular Photochemistry and Nanomaterials for Green Energy Devolopment” 14-17- Feb, Cairo, 2010

10-International Conference on Molecular/Nano Photochemistry and Applied PhotoCatalysis and Solar Energy, 24-28-Feb, Cairo, 2008

11-International Conference on Solar Energy and Applied Photochemistry and Applied Nano-Technology, 23-26-Jan, Cairo, 2006

12-International Conference on Solar Energy and Applied Photochemistry – and the first Conference on The Science of Nanotechnology and Its Application, 20-25-Feb, Luxor, 2005

13-International Conference on Solar Energy and Applied Photochemistry, 23-28-Feb, Cairo-2003,

Member of organizing Committee and Speaker of the following workshops:

Oral presentation about:

- New Chemical Methods for Early Diagnosis of Cancer Diseases, 13-14 Agus, 2023, Faculty of Science, Ain Shams University.
- New Analytical Methods for Early Diagnosis of Cancer Diseases, 5 Dec, 2019, Faculty of Science, Ain Shams University.
- Introduction to Nanotechnology and Its Application in Insecticides (2012, Faculty of Agriculture, Al-Azhar University)
- Application of Nanotechnology and Its Application in Insecticides (2012, National Research Center, NRC)
- Greenest Energy Supply – Manufacturing of Chemical Solar Cells: Nano Chemistry Approach, 12-13-may 2010, photoenergy center, Faculty of science, ASU.
- Nano Chemistry and clean water workshop, 2-3-Decb, 2009, Nano photochemistry and solar chemistry labs, Department of chemistry, Faculty of science, ASU.
- Requirements of nanotechnology labs, environmental detection, solar and photoenergy devices workshop, 29-30-april, 2009, photoenergy center, Faculty of science, ASU.
- Photoenergy and Development, 16-17-Jan-2007, photoenergy center, Faculty of science, ASU.
- Applications of photoenergy technology in Environment, 14-16-Oct, 2003, photoenergy center, Faculty of science, ASU.
- Applications of photoenergy technology, 13-18, Oct., 2001, photoenergy center, Faculty of science, ASU.
- Application of electronic fluorescence and reflection spectra in science, pharmaceutical and dentil, 29 Feb-2 Mar., 2000, photoenergy center, Faculty of science, ASU.

Award and Honoring

National Award

- Publications Awards Winners in the Field of Life Sciences, Misr El- Kheir (MEK) Foundation (2010)
- Vinus Kamel Award for material science, Innovation and technology, (2011)
- State encouragement prize in chemistry, 2012.
- Sabry Abdel-Mottaleb Prize for solar and photochemistry in 2022
- FAWZY HAMAD Prize for for Advanced Science and Technology, 2023
- Ain Shams University Appreciation Award for Advanced Science and Technology, 2023

International Awards

- The best 2% of the world's scientists 2019-2020(Ain Shams university (asu.edu.eg))
- The best 2% of the world's scientists 2020-2021(Ain Shams university (asu.edu.eg)
- The best 2% of the world's scientists 2021-2022(Ain Shams university (asu.edu.eg)
- The best 2% of the world's scientists 2022-2023(Ain Shams university (asu.edu.eg)

- Membership of the International Committees

- National representative for Egypt in IUPAC (Analytical Division) for period (2024/2025)
- American Chemical Society from 2010 to 2016
- Asian Council of Science Editors
- Sensor Community
- American Nano Society from 2010 up till now

Membership of the National Committees

- Egyptian National Committee for Pure and Applied Chemistry
- Member of the Research Council at Ain Shams University
- Member of the Higher Committee for the Development of Graduate Studies at Ain Shams University
- Member of the Board of Directors of the Ain Shams Medical Research Center – Faculty of Medicine, ASU. (Masry)

- Member of the Egyptian Jewelry and Gold Committee
- Egyptian Analytical Chemistry Society from 2010 up till now

Referee for international projects and issues

- "physicochemical investigation, through multi-scale computational simulations of quantum chemistry and molecular dynamics, of the application of nanomofs as adsorbent materials for fields of drug carriers and water treatment.", National Research and Development Agency (ANID) of the Ministry of Science, Technology, Knowledge and Innovation of Chile, Santiago, Chile, August 2022
- An international referee for doctoral theses
- 1- An examiner for Ph.D. thesis evaluation of my student Ms. R. Lavanya, India. Thesis entitled "Synthesis of Organic Based Fluorophores for the Detection of Biomolecules by Optical Biosensor
- 2- An examiner for Ph.D thesis of student Ms.Sathya, India. Thesis entitled " A Facile Approach for Synthesizing Organic Small Molecules to Develop Optical Biosensor for Wide Range Detection of Biomolecules in Human Biofluids.

- Referee for national projects and issues

- "Ultrasound-Enhanced Electrochemical Advanced Oxidation Process: Towards Green-Labeled and Efficient Pollutant Removal Technologies" Public administration of research – Mansoura University, Competitive Research Projects, April, 2022

- Expert and advisor to Case No. 178/2088 in Abbasiya Courts Complex (North Cairo Court of First Instance) for the year 2008.
- Arbitration of academic grades for promotion of the rank of professor, Standing Scientific Committee for Materials Science and Technology,
  Referee for promotion of the professor degree of
  1- Dr. Mohamed Mahmoud Fareg Mohamed, NRC. (MATERIAL SCIENCE DIVISION)
  2- Dr. Fatam Mohamed Margha, NRC. (GLASSEES AND MATERIALS DIVISION)

Participation in projects from 1999-to now:

1- AQUACAT Project: photo disinfection of water-in collaboration with international European [france, swiss, spain, UK and Portugal] and north African Laboratories, 2003-2005.ICA3-CT-2002-10016. [Member]

2- Photovoltaics from Polymer/Quantum Dot Composites, (US- Egypt) joint research project, 2006 -2008. [Member]

3- POWESOL Project: Mechanical Power Generation Based on Solar Thermodynamic Engines. 2007-2009 Contract No. 032344 (INCO) Source of fund: FP6 [Egypt, Tunis, Algeria, Spain,Portugal and Swiss], (2007 –2009) [Member]

4- Early Diagnosis of Ovarian cancer by nano optical sensor, project number (568-965-2015G),KAU, 2015, Saudi Arabia. [fund = 400,000 SR] [PI]

5- Investigating the characteristics of ultra-sensitive Nano optical sensors lanthanide-doped in solgel matrix for some industrial applications. "Under grant no. (180-135-D1435), King Abdul-Aziz University, 2015, Jeddah. [Fund = 40,000 SR] [PI]

6- Early Diagnosis of liver cancer by nano optical sensor, project number (SCI-2017-1-8-F7-7340), Northern Border University, 2017, Saudi Arabia. [Fund = 400,000 SR] [Co-PI]

7-Phytomediated Green Synthesis of Magnetic Iron Oxide Nanoparticles for Biomedical Applications, PhosAgro/UNESCO/IUPAC grant in green chemistry, 2019. The project was awarded "2019 Green Chemistry for Life Science" award after being selected among top 5% applicants in the worldwide competition evaluated by UNESCO/ IUPAC/ PhosAgro, FRANCE.
[Fund = 30,000 $][Co-PI]

8- New Prototype Containing Nano Optical Sensor for Follow up the Liver Cancer Disease During and After Treatment of Patient, under grant no :2019-5200, ASRT. [Fund = 1,821,000 LE] [PI]
9- New Prototype Containing Nano Optical Sensor for Follow up the Liver Cancer Disease During and After Treatment of Patient, under grant no :2023-5200, ASRT. [Fund = 1,821,000 LE] [PI] [second stage]

10- Fabrication of a Novel prototype, Kit and methodology Based on An Optical Biosensor doped Peptide with a Suitable Herbal Extract As A Novel Combination for Detection /Protection/Treatment of Methicillin-resistant Staphylococcus aureus (MRSA) in Bulk Tank Milk From Cattle Dairy Farms Assessed Their Efficacy Using PA Algorithm. [Call 1 / One Health Research and Innovation Grant (OHRIG) / Special Targeted Call Grants], 2023 [PI]

Field of Interest

Diagnosis of Cancer Diseases,
Analytical photochemistry,
Nano Optical and Chemosensor,
Solar chemistry,
Applied photochemistry,
Preparation of nano photo catalyst

Editor-in Chief

Online journal of Chemistry (ISSN: 2770-1913) DOI prefix: 10.31586/ojc

Editorial board members:

1-Current Medicinal Chemistry indexed in (SCOPUS, Q2 WOS, IF =4.1)

2-Current analytical chemistry indexed in (Scopus, Q3 WOS, IF=2.327) 3-Current Signal Transduction Therapy- INDEXED IN SCOPUS (Scopus CiteScore= 1.9)

4- Industrial and Environmental Chemistry

5- MOJ Solar and Photoenergy Systems- MedCrave online

6- Open Journal of Chemistry, peertechz publications.

7- Austin Journal of Analytical and Pharmaceutical Chemistry, Austin publications LLC. (IF = 2.8)

8- Journal of Advances in Medical Sciences

9- Analytical chemistry letters, Tylor and Francis publisher, indexed in Scopus (2010 – 2020)

10- SPRINGER PLUS, Springer publisher, indexed in Scopus, IF =1.9) (2014-2016) NOW this Journal is replaced by Springer Nature.

INTERNATIONAL PUBLICATIONS

1. Article

Tuning energy transfer in Sugammadex-Tb^{3+} complex: Towards highly sensitive chemosensor for Sugammadex in pharmaceutical formulation

Alharthi, S., Alharthi, S., AlGhamdi, H.A., ... Hassanein, T.F., Attia, M.S.

Journal of Photochemistry and Photobiology A: Chemistry, 2024, 456, 115840

2. Article • *Open access*

Impact of Mo^{+2} addition and thermal annealing on the surface morphology, electrical transport properties and Mott's parameters of WO_3 films for potential photonic devices

Alshomar, S.M., Attia, M.S., Akl, A.A., ... Amin, L.G., Mahmoud, S.A.

Heliyon, 2024, 10(17), e36783

3. Article • *Open access*

Fe-Gallic acid metal organic framework-encapsulated cellulose polymer thin film for fluorescent immunoassay of prostate-specific antigen

Alharthi, S., Abou-Omar, M.N., Amin, L.G., ... Mohamed, E.H., Attia, M.S.

Results in Chemistry, 2024, 10, 101738

4. Article

Terbium-based photoprobe enables ultrasensitive and selective detection of Tirofiban in pharmaceuticals

Abo Elhamd, M., Youssef, A.O., Attia, M.S.

Journal of Photochemistry and Photobiology A: Chemistry, 2024, 453, 115682

5. Article • *Open access*

Polymer-Based Terbium Complex as a Fluorescent Probe for Cancer Antigen 125 Detection: A Promising Tool for Early Diagnosis of Ovarian Cancer

Mohamed, M.M., Gamal, H., El-Didamony, A., ... Mohamed, E.H., Attia, M.S.

ACS Omega, 2024, 9(23), pp. 24916–24924

6. Article

Highly effective and reusable Ni–Al oxide/$Zn_{0.4}Co_{0.6}Fe_2O_4$ superparamagnetic aerogel for oil-water separation

Shehata, F.A., El-Kalliny, A.S., Abdel-Wahed, M.S., Attia, M.S., Gad-Allah, T.A.

Chemosphere, 2024, 355, 141668

7. Article

A highly selective optical sensor Eu-BINAM for assessment of high sensitivity cardiac troponin tumor marker in serum of cancer patients

Ahmed, S.S., Youssef, A.O., Mohamed, E.H., Attia, M.S.

Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2023, 300, 122887

8. Article

Preparation and Characterization of Fe-Gallic acid MOF for determination of antiviral Molnupiravir as inhibitor for RNA Corona virus replication

Younis, H.M., Youssef, A.O., El-Sheikh, S.M., Sheta, S.M., Attia, M.S.

Microchemical Journal, 2023, 194, 109297

9. Article

Spectrophotometric Method Development and Validation for the Determination of Molnupiravir in Bulk Powder and Pharmaceutical Formulation

Mahmoud, N.E.-D.M., Youssef, A.O., Attia, M.S.

Egyptian Journal of Chemistry, 2023, 66(10), pp. 423–429

10. Article

Procalcitonin assessment by using optical sensor terbium hydrochlorothiazide complex for early diagnosis of lung cancer

Mahmoud, S.A., El-Rayyes, A., Ahmed, S.S., Attia, M.S.

Microchemical Journal, 2023, 193, 109051

11. Article • *Open access*

$SiO_2/Zn_{0.4}Co_{0.6}Fe_2O_4$ aerogel: an efficient and reusable superparamagnetic adsorbent for oily water remediation

Shehata, F.A., El-Kalliny, A.S., Attia, M.S., Gad-Allah, T.A.

RSC Advances, 2023, 13(34), pp. 23421–23430

12. Article • *Open access*

Novel sensor for the determination of CA 15-3 in serum of breast cancer patients based on Fe-gallic acid complex doped in modified cellulose polymer thin films

AlGhamdi, H.A., AlZahrani, Y.M., Alharthi, S., ... Mahmoud, S.A., Attia, M.S.

RSC Advances, 2023, 13(31), pp. 21769–21780

13. Article • *Open access*

Highly selective optical sensor N/S-doped carbon quantum dots (CQDs) for the assessment of human chorionic gonadotropin β-hCG in the serum of breast and prostate cancer patients

AlZahrani, Y.M., Alharthi, S., AlGhamdi, H.A., ... Mahmoud, S.A., Attia, M.S.

RSC Advances, 2023, 13(31), pp. 21318–21326

14. Article • *Open access*

Seven-Arms Starfish “Luidia maculata” Characteristics of Coelomocytes and Promising GSK3-β Protein for Wound Healing: Cellular and Chemical Analyses

Abdel-Ghaffar, W.H., Attia, M.S., Youssef, F.S.

Egyptian Journal of Aquatic Biology and Fisheries, 2023, 27(4), pp. 631–651

15. Article • *Open access*

Development and validation of molnupiravir assessment in bulk powder and pharmaceutical formulation by the RP-HPLC-UV method

Annadi, A.M., El Zahar, N.M., El-Din A. Abdel-Sattar, N., ... Mahmoud, S.A., Attia, M.S.

RSC Advances, 2022, 12(53), pp. 34512–34519

16. Article • *Open access*

Synthesis and characterization of new 1,3,4-thiadiazole derivatives: study of their antibacterial activity and CT-DNA binding

Sayiner, H.S., Yilmazer, M.I., Abdelsalam, A.T., ... Kandemirli, F., Amin, M.A.

RSC Advances, 2022, 12(46), pp. 29627–29639

17. Article

Evaluations of structural, thermal, spectral, and magnetic properties of $Li_{0.5}Fe_{2.5}O_4$ multi magnetic oxide fabricated via sol-gel auto-ignition technique

Junaid, M., Khan, M.A., Majeed, A., ... Amin, M.A., Asif Iqbal, M.

Ceramics International, 2022, 48(15), pp. 21651–21656

18. Article • *Open access*

Efficacy and Biochemical Evaluation of Two Nano materials in Control of Cotton Leaf worm, Spodopetra littoralis

El-Sayed, A.A.M., Abd El Aziz, M.A., AbdAllah, A.A., Mahmoud, S.A., Attia, M.S.

Egyptian Journal of Chemistry, 2022, 65(7), pp. 441–445

19. Article

The influence of Zr and Ni co-substitution on structural, dielectric and magnetic traits of lithium spinel ferrites

Junaid, M., Qazafi, I.A., Khan, M.A., ... Amin, M.A., Noor ul Huda Khan Asghar, H.M.

Ceramics International, 2022, 48(10), pp. 14307–14314

20. Article • *Open access*

Cathodic Activation of Titania-Fly Ash Cenospheres for Efficient Electrochemical Hydrogen Production: A Proposed Solution to Treat Fly Ash Waste

Altalhi, T., Mezni, A., Ibrahim, M.M., ... Boukherroub, R., Amin, M.A.

Catalysts, 2022, 12(5), 466

21. Article

Investigation into the structural and magnetic features of nickel doped U-type hexaferrites prepared through sol–gel method

Kausar, R., Azhar Khan, M., Gulbadan, S., ... Attia, M.S., Amin, M.A.

Journal of Magnetism and Magnetic Materials, 2022, 549, 169054

22. Erratum • *Open access*

Erratum: Electrocatalytic hydrogen generation using tripod containing pyrazolylborate-based copper(ii), nickel(ii), and iron(iii) complexes loaded on a glassy carbon electrode (RSC Advances (2022) 12 (8030-8042) DOI: 10.1039/D1RA08530A)

Ibrahim, M.M., Mersal, G.A.M., Fallatah, A.M., ... Attia, M.S., Amin, M.A.

RSC Advances, 2022, 12(19), pp. 11807

23. Article

A new method for early diagnosis of liver cancer using a biosensor embedded in an alginate polymer thin film

Attia, M.S., Mohamed, A.A., El-Saady, M.M., ... Youssef, A.O., Mohy-Eldin, M.S.

Journal of Materials Chemistry C, 2022, 10(16), pp. 6464–6472

24. Article • *Open access*

Electrocatalytic hydrogen generation using tripod containing pyrazolylborate-based copper(II), nickel(II), and iron(III) complexes loaded on a glassy carbon electrode

Ibrahim, M.M., Mersal, G.A.M., Fallatah, A.M., ... Attia, M.S., Amin, M.A.

RSC Advances, 2022, 12(13), pp. 8030–8042

25. Article • *Open access*

A highly selective and sensitive spectrofluorimetric method for the assessment of 3-nitrotyrosine in serum using (Eu(TTA)$_3$Phen) photo probe

Attia, M.S., Youssef, A.O., Abdel-Sattar, N.A., ... Mahmoud, S.A., Abou-Omar, M.N.

RSC Advances, 2022, 12(8), pp. 4536–4542

26. Article • *Open access*

Sea Cucumber "Holothuria (Thymiosycia) arenicola" induced-autotomy for sustainable development in Egypt: Histological, Ultrastructure, and Chemical studies.

Abdel-Ghaffar, W.H., Hellal, A.M., Attia, M.S., Youssef, F.S.

Egyptian Journal of Aquatic Biology and Fisheries, 2022, 26(4), pp. 1459–1491

27. Article

A novel cyanopyridine derived fluorescent sensor for selective determination of uranyl ions in different water samples

Salem, A.R., El-Naggar, A.M., Mohamed, E.H., Amin, M.A., Attia, M.S.

Journal of Radioanalytical and Nuclear Chemistry, 2022, 331(1), pp. 187–196

28. Article

Characterization and Kinetics of Chromium Carbide Coatings on AISI O2 Tool Steel Performed by Pack Cementation

Elhelaly, M.A., El-Zomor, M.A., Attia, M.S., Youssef, A.O.

Journal of Materials Engineering and Performance, 2022, 31(1), pp. 365–375

29. Article • *Open access*

Tb^{3+}-atorvastatin doped in poly(ethylene glycol) optical biosensor for selective determination of progesterone and testosterone in serum samples

Attia, M.S., Mahmoud, S.A., Ahmed, A.M., ... Abou-Omar, M.N., Mohamed, E.H.

RSC Advances, 2021, 11(53), pp. 33326–33333

30. Article • *Open access*

New Tb^{3+}-simvastatin optical biosensor for sensitive determination of folic acid, progesterone, testosterone and vitamin D_3 in biological fluids

Attia, M.S., Ahmed, A.M., Amin, T.A., ... Mahmoud, S.A., Abou-Omar, M.N.

RSC Advances, 2021, 11(52), pp. 32861–32872

31. Article • *Open access*

Simultaneous determination of Avanafil and Dapoxetine in human plasma using liquid chromatography/tandem mass spectrometry (LC-MS/MS) based on a protein precipitation technique

Abou-Omar, M.N., Annadi, A.M., El Zahar, N.M., ... Attia, M.S., Mohamed, E.H.

RSC Advances, 2021, 11(47), pp. 29797–29806

32. Article • *Open access*

Novel Optical Biosensor Based on a Nano-Gold Coated by Schiff Base Doped in Sol/Gel Matrix for Sensitive Screening of Oncomarker CA-125

Abou-Omar, M.N., Attia, M.S., Afify, H.G., ... Boukherroub, R., Mohamed, E.H.

ACS Omega, 2021, 6(32), pp. 20812–20821

33. Article

Kinetics and isotherms of lead ions removal from wastewater using modified corncob nanocomposite

Kamal, K.H., Attia, M.S., Ammar, N.S., Abou-Taleb, E.M.

Inorganic Chemistry Communications, 2021, 130, 108742

34. Article • *Open access*

Terbium bipyridyl complex as a photo probe for the determination of carbohydrate antigen CA15.3 in different breast cancer patient samples

Attia, M.S., Youssef, A.O., Goma, M., Ibrahim, T.

Egyptian Journal of Chemistry, 2021, 64(7), pp. 3541–3546

35. Article

Validation of a novel UPLC-MS/MS method for estimation of metformin and empagliflozin simultaneously in human plasma using freezing lipid precipitation approach and its application to pharmacokinetic study

Abou-Omar, M.N., Kenawy, M., Youssef, A.O., ... Attia, M.S., Mohamed, E.H.

Journal of Pharmaceutical and Biomedical Analysis, 2021, 200, 114078

36. Article • *Open access*

pH assists simultaneous determination of folic acid and vitamin D_3in biological fluids using a novel Tb^{3+}-acyclovir optical biosensor

Alharthi, S., Attia, M.S., Abou-Omar, M.N.

RSC Advances, 2021, 11(34), pp. 20865–20873

37. Article

A stable and sensitive luminescent photoprobe based on tris(3-acetylindole) terbium(III) complex: Molecular modeling, luminescence quenching, and Ab initio molecular dynamics

Elsaady, M.M., Youssef, A.O., Attia, M.S., Abdel-Mottaleb, M.S.A.

Applied Organometallic Chemistry, 2021, 35(3), e6115

38. Article • *Open access*

Characterization of VC Coatings on Cold Work Tool Steel Produced by TRD

Elhelaly, M.A., El-Zomor, M.A., Youssef, A.O., Attia, M.S.

Manufacturing Technology, 2021, 21(5), pp. 600–605

39. Article • *Open access*

ph assists for selective determination of acyclovir by the emission enhancement of tb3+chemosensor in tablet and serum samples

Amin, T.A., Azab, M.E., Abdel-Mottaleb, M.S.A., Attia, M.S.

Egyptian Journal of Chemistry, 2021, 64(2), pp. 713–720

40. Article • *Open access*

A novel photoprobe based on nano tris (3-acetylindole)-terbium(III) complex for the quantitative determination of epinephrine in blood samples

Elsaady, M.M., Youssef, A.O., Attia, M.S., Abdel-Mottaleb, M.S.A.

Egyptian Journal of Chemistry, 2021, 64(1), pp. 157–164

41. Article • *Open access*

Highly Selective Optical Sensor Eu $(TTA)_3$ Phen Embedded in Poly Methylmethacrylate for Assessment of Total Prostate Specific Antigen Tumor Marker in Male Serum Suffering Prostate Diseases

Garoub, M., Hefny, A.H., Omer, W.E., ... El-Kemary, M.A., Attia, M.S.

Frontiers in Chemistry, 2020, 8, 561052

42. Article • *Open access*

Highly Efficient Gold Nano-Flower Optical Biosensor Doped in a Sol-Gel/PEG Matrix for the Determination of a Calcitonin Biomarker in Different Serum Samples

Omer, W.E., El-Kemary, M.A., Elsaady, M.M., ... Gouda, A.A., Attia, M.S.

ACS Omega, 2020, 5(11), pp. 5629–5637

43. Article

Terbium Crown-Ether Complex as a Stable Photoprobe

Abdel-Mottaleb, M.S.A., Abdullah, L.M., Attia, M.S.

Applied Organometallic Chemistry, 2020, 34(3), e5420

44. Article

Core double-shell $MnFe_2O_4$@rGO@TiO_2 superparamagnetic photocatalyst for wastewater treatment under solar light

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