



Ahmad Abo Markeb

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https://scholar.google.com/citations?hl=en&user=zw_TjtUAAAAJ&view_op=list_works&sortby=pubdate |

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ABOUT ME

I am an environmental engineer holding a PhD in Environmental Science and Technology from the Department of Chemical, Biological, and Environmental Engineering, Universitat Autònoma de Barcelona, Spain, specializing in material sciences and environmental engineering applications. I have vast experience in the synthesis of nanomaterials, characterization, and their applications in Water remediation, Catalysis, CO₂ capture and conversion into methane and methanol, Enhancement of the biogas production, the Elimination of toxic gases from the anaerobic digestion process, as well as Method validation and Quality assurance/quality control, and Instrumental analysis. In addition, I am an Associate Professor in Analytical Chemistry and Environmental Science and Technology at Assiut University, Egypt. I participated in teaching several undergraduate and postgraduate students from different faculties. During my investigation, I have published more than 30 research articles and reviews in indexed and impacted journals and in non-indexed journals. I have also participated in 9 international conferences and workshops. In addition, I have finished supervising 6 doctoral theses, 3 master theses, and several final degree projects in chemistry, environmental science, and technology. I have over 800 citations and an h-index of 15. (https://scholar.google.com/citations?hl=en&user=zw_TjtUAAAAJ&view_op=list_works&sortby=pubdate).

WORK EXPERIENCE

02/05/2022 – CURRENT Bellaterra, Spain

POSTDOCTORAL RESEARCHER DEPARTMENT OF CHEMICAL, BIOLOGICAL AND ENVIRONMENTAL ENGINEERING, UNIVERSITAT AUTÒNOMA DE BARCELONA

- Synthesis of nanomaterials and their characterizations.
- Water remediation using bio-adsorbents and adsorbent nanomaterials.
- Enhancing biogas contents in biogas production and removal of toxic gas such as H₂S.
- Conversion of the CO₂ into methanol and/or methane using catalyst nanomaterials.
- Writing research articles and reviews.
- Participating in research projects.

26/04/2023 – CURRENT Assiut, Egypt

ASSOCIATE PROFESSOR IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY/ ANALYTICAL CHEMISTRY FACULTY OF SCIENCE, ASSIUT UNIVERSITY

06/09/2021 – 30/04/2022 Assiut, Egypt

ASSISTANT PROFESSOR AND RESEARCHER FACULTY OF SCIENCE, ASSIUT UNIVERSITY

- Teaching undergraduate and Postgraduate students.
- Supervision of Master and PhD candidates.
- Elimination of several contaminants from water and wastewater.
- Participating in research projects.

06/03/2021 – 05/09/2021 Bellaterra, Spain

POSTDOCTORAL FELLOW DEPARTMENT OF CHEMICAL, BIOLOGICAL AND ENVIRONMENTAL ENGINEERING, UNIVERSITAT AUTÒNOMA DE BARCELONA

01/10/2017 – 05/03/2021 Assiut, Egypt

ASSISTANT PROFESSOR AND RESEARCHER FACULTY OF SCIENCE, ASSIUT UNIVERSITY

- Teaching undergraduate and postgraduate students.
- Supervision of Master and PhD students.

- Water and wastewater treatment using advanced nanomaterials.
- Encapsulating essential oils in nanoparticles and evaluating the anti-biofilm efficiencies.
- Participating in research projects.

25/10/2017 – 15/02/2021 Assiut, Egypt

LAB MANAGER DEPUTY OF ANALYTICAL CHEMISTRY UNIT ACCREDITED BY THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION ASSIUT UNIVERSITY

10/11/2017 – 15/02/2021 Assiut, Egypt

COORDINATOR OF MULTIDISCIPLINARY RESEARCH CENTER ASSIUT UNIVERSITY

01/10/2013 – 18/09/2017 Bellaterra, Spain

PHD STUDENT DEPARTMENT OF CHEMICAL, BIOLOGICAL AND ENVIRONMENTAL ENGINEERING, UNIVERSITAT AUTÒNOMA DE BARCELONA

02/05/2012 – 31/08/2013 Assiut, Egypt

QUALITY ASSURANCE MANAGER OF THE ANALYTICAL CHEMISTRY UNIT ASSIUT UNIVERSITY

01/12/2010 – 01/05/2012 Assiut, Egypt

TECHNICAL MANAGER OF THE ANALYTICAL CHEMISTRY UNIT ASSIUT UNIVERSITY

18/02/2007 – 30/09/2013 Assiut, Egypt

TEACHING ASSISTANT AND RESERACHER FACULTY OF SCIENCE, ASSIUT UNIVERSITY

- Teaching undergraduate in practical sessions.
- Participating in research work.
- Conducting the experimental part of my MSc thesis.

01/11/2006 – 30/11/2010 Assiut, Egypt

ANALYST AND COORDINATOR OF THE ANALYTICAL CHEMISTRY UNIT ASSIUT UNIVERSITY

- Method validation and quality control of standard test methods.
- Extraction and determination of several analytes from simple and complex materices.
- Participating in the accreditation process of the Analytical Chemistry Unit according to ISO 17025.

01/08/2005 – 30/09/2005 Lüneburg, Germany

RESEARCH INTERNSHIP BY IAESTE LÜNEBURG UNIVERSITY

● EDUCATION AND TRAINING

01/10/2013 – 18/09/2017 Bellaterra, Spain

PH.D. IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY Universitat Autònoma de Barcelona

Website <https://www.uab.cat/>

01/10/2008 – 29/04/2012 Assiut, Egypt

M.SC. IN ANALYTICAL CHEMISTRY Faculty of Science, Assiut University

Website <https://www.aun.edu.eg/science/>

25/09/2002 – 15/07/2006 Assiut, Egypt

B.SC. IN CHEMISTRY Faculty of Science, Assiut University

Website <https://www.aun.edu.eg/science/>

10/2013 – 12/2013

INSTRUMENTAL ANALYSIS TRAINING (ION CHRMOTAGRAPHY, MICROTOX) Escola D'enginyeria, Universitat Autònoma de Barcelona

11/2006 – 03/2011

ANALYTICAL AND BIOANALYTICAL TRAINING TECHNIQUES (GAS CHROMATOGRAPHY/ MASS SPECTROMETRY, CAPILLARY ELECTROPHORESIS, UV/VIS SPECTROPHOTOMETER, MICROARRAY, VOLTAMMETRY, DIFFERENTIAL SCANNING CALORIMETRY, HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) Analytical Chemistry Unit, Assiut University, Egypt

01/08/2005 – 30/09/2005 Lüneburg, Germany

RESEARCH INETRNSHIP Faculty of Environmental Sciences, Lüneburg University, Germany

● CONFERENCES AND SEMINARS

09/09/2024 – 11/09/2024 Valladolid, Spain

1st International Conference on Novel Photorefineries for Resource Recovery

Oral Presentation.

Link <https://funge-uva.symposium.events/108692/detail/1st-international-conference-on-novel-photorefineries-for-resource-recovery-2024.html>

12/12/2023 – 14/12/2023 Manchester, UK

E3B: Bio-recovery of Technology Relevant Metals

Poster Presentation.

Link <https://ebnet.ac.uk/e3b-bio-recovery-of-technology-relevant-metals-12-14-december-2023/>

07/06/2023 – 07/06/2023 Peru

I Congreso internacional de de gestion ambiental intercultural, desarrollo sostenible, cambio climatico e investigacion ambiental

Invited speaker (Oral Presentation).

Link <https://oldsite.uniscjsa.edu.pe/event/i-congreso-internacional-de-gestion-ambiental/>

27/03/2018 – 30/03/2018 Egypt

The second International Conference on Multidisciplinary Research

Poster Presentation.

Link <https://www.aun.edu.eg/science/second-international-conference-multidisciplinary-research-icmr-1>

29/06/2016 – 30/06/2016 Barcelona, Spain

JPHD2016

Oral Presentation.

Link <https://icmab.es/jphd-2016>

07/06/2016 – 10/06/2016 Barcelona, Spain

The 2016 International Symposium on Metal Complexes (ISMEC 2016)

Poster Presenation

Link <https://icn2.cat/en/events/eventdetail/119/the-2016-international-symposium-on-metal-complexes-ismec-2016>

03/05/2015 – 07/05/2015 Barcelona, Spain

SETAC Europe 25th Annual Meeting

Oral Presentation.

Link <https://www.setac.org/resource/setac-eu-barcelona-abstract-book.html>

27/10/2014 – 31/10/2014 Barcelona, Spain

Trends in Nanotechnology International Conference (TNT2014)

Link <https://tntconf.archivephantomsnet.net/2014/index.php?conf=14>

14/03/2012 – 15/03/2012 Assiut, Egypt

Assiut University 8th International Pharmaceutical Sciences Conference

Link <https://www.aun.edu.eg/pharmacy/assiut-university-eighth-international-pharmaceutical-sciences-conferenceconference-recommendations>

19/04/2011 – 20/04/2011 Assiut, Egypt

The third Conference for Young Researchers, Basic Science & Technology

27/11/2012 – 28/11/2012 Mövenbick Resort El Sokhna, Egypt

Environmental and Food Testing Workshop

18/02/2010 – 18/02/2010 Intercontinental Cairo, Egypt

Recent Advances in MicroArray Application Wrokshop

24/06/2010 – 24/06/2010 Assiut University, Egypt

Introduction to traceability in Analytical Lab seminar

13/09/2010 – 13/09/2010 Assiut University, Egypt

Assessment of Lab Competence seminar

12/07/2010 – 12/07/2010 Assiut University, Egypt

Root Cause Analysis and Corrective Action seminar

15/05/2010 – 17/05/2010 Analytical Chemistry Unit, Assiut University, Egypt

Introduction to Measurement Uncertainty and Estimation of Budget Uncertainty seminars

15/11/2009 – 15/11/2009

Method validation and Lab Quality Control seminar

● **HONOURS AND AWARDS**

01/12/2022

The attraction of international talent Grant (María Zambrano) – Ministry of Science, Innovation, and Universities, Spain.

06/03/2021

6-Months Postdoctoral fellowship Grant in Spain – Ministry of Higher Education of Egypt

18/09/2017

The Excellent with "Cum Laude" qualification in the PhD thesis – Universitat Autònoma de Barcelona

01/10/2013

PhD scholarship Grant (4 years) in Spain – Ministry of Higher Education of Egypt

2015

Faculty of Science Award for research extracted from scientific theses with the highest impact factor in chemistry. – Faculty of Science, Assiut University, Egypt

01/08/2005

Research Internship Grant at Faculty of Environmental Sciences, Lüneburg University, Germany – International Association for the Exchange of Students for Technical Experience (IAESTE)

● PROJECTS

2022 – 2024

TED2021-130407B-I00 (Squeezer)

Nanomaterials to squeeze anaerobic digestion: boosting methane content and converting carbon dioxide to methanol.

Funding: Ministerio de Ciencia e Innovación Call: Proyectos Estratégicos Orientados a la Transición Ecológica y Transición Digital.

Type of Participation: Reseracher.

2021 – 2024

PID2020-115631GB-I00

Metal Organic Fameworks for CO₂ hydrogenation to methanol and other applications. **Funding:** Ministerio de Ciencia e Innovación Call: Proyectos los Programas Estatales de Generacion de Conocimiento y Fortalecimiento Cientifico y Tecnologico del Sistema de I+D+i. **Type of Participation:** Reseracher.

2021 – 2023

IDI/2021/000096

Funding: Fundación Española para la Ciencia y la Tecnología, Call: Proyectos del Plan Regional de I+D+i. **Type of Participation:** Reseracher.

2019 – 2021

META2NOL

Más allá del biogás como energía renovable: conversión a metanol mediante nanopartículas metálicas en soportes tipo metal-organic frameworks (MOFs). **Funding:** Fundación Ramón Areces, XIX Concurso Nacional para la adjudicación de Ayudas a la Investigación en Ciencias de la Vida y de la Materia. **Type of Participation:** Reseracher.

2018 – 2020

USAID/NAS 18:1137

Biofilm Inactivation Using Smart Antimicrobial Nanoconjugate. **Funding:** Science and Technology Development Fund, Egypt and USAID, USA. **Type of Participation:** Co-PI.

2012 – 2014

NANO-GEI

Desarrollo de una nueva generación de nanoestructuras para la eliminación de gases de efecto invernadero. **Funding:** Fundación Ramón Areces. **Type of Participation:** Reseracher.

● CREATIVE WORKS

04/2024 – 12/2024

Agreement Collaboration between Alere Circular, S.L., Barcelona, and UAB, Barcelona

Removal of ammonium from purine using biochars.

07/2019 – 06/2020

Agreement Collaboration between Assiut Company for Drinking Water and Wastewater and Faculty of Science, Assiut University, Egypt.

Water desalination and removal of heavy metals from water using nanotechnology.

07/2023 – CURRENT

International cooperation between the UAB, Spain and Prof. Alfred Fernandez-Castane at the University of Birmingham, UK,

09/2023 – 11/2023

International cooperation between the UAB, Spain and the Instituto Politécnico Nacional, Sección de Posgrado e Investigación, México.

Via a master's student, Yamilet Hernández Pérez.

12/2022 – 11/2023

International cooperation between the UAB, Spain and the Biotechnology and Genetic Engineering Laboratory, Universidad Autónoma de Sinaloa, México

Via a PhD's student, Andrea Gárate-Osuna.

05/2022 – 11/2022

International cooperation between the UAB, Spain and the Institut de l'Electronique-CNRS at Montpellier, France

● **MANAGEMENT AND LEADERSHIP SKILLS**

"Nano-antimicrobial materials for biofilm inactivation in food processing and service establishments" PhD thesis director

Ahmed Abu-Zeid, Faculty of Veterinary, 2016-2020.

"Enhancement the effect of some phenolic compounds against bacterial pathogens using nanotechnology" PhD thesis director

Asmaa Heneter, Faculty of Veterinary, 2017-2021.

"Detection of some carcinogenic compounds in meat products and study of the effects of some natural and safe alternatives using nanotechnology" PhD thesis director

Hadeel Bakr, Faculty of Veterinary, 2017-2021.

"Assessment of the effect of oregano oil-loaded nanoparticles to inhibit some food poisoning microorganisms on meat surfaces" PhD thesis director

Doaa Sameh, Faculty of Veterinary, 2017-2022.

"Targeting phthalate esters that contaminate some water environments using graphene nanocomposites" PhD thesis director

Walaa Zakaria, Faculty of Veterinary, 2016-2021.

"Isolation, characterization and biological evaluation of the constituents of Artichoke and its fungal endophytes" PhD thesis director

Abd-Ellah Thabet, Faculty of Science, 2017-2019.

"Preparation and characterization of some new nanocomposite materials and their application for water remediation" PhD thesis director

Kawther Abd-Elhameed, Faculty of Science, 2019-2025.

"Synthesis of new nanocomposite-based organic moieties for environmental pollution control" Master thesis director

Ahmed Abd Al-Raheem, Faculty of Science, 2020-2025.

"Heavy Metal Ions Removal from Water and Wastewater Using Advanced Nanomaterials" Master thesis director

Mohamed Farghaly, Faculty of Science, 2018-2024.

"Reduce the impact forces of punches using the boxing glove Nanotechnology for boxers" Master thesis director

Islam Abo Deaf, Faculty of Physical Education, 2019-2023.

"Catalytic conversion of CO₂ to methanol using cobalt-manganese oxide nanoparticles" Master thesis Co-director

● **TEACHING**

20/10/2017 – 01/03/2021

Subjects for undergraduate and postgraduate students.

Analytical Chemistry, General Chemistry, Inorganic Chemistry, Physical Chemistry, Environmental Chemistry, Food Chemistry Analysis, Practical Biochemistry, Analytical Biochemistry, Chemometrics, Quality Assurance/Quality Control Principles, Bioanalysis courses, Nano-Chemistry: An Introduction and Potential Applications, Fundamentals of Environmental Chemistry, Water Analysis, Advanced Instrumental Analysis, and Analytical Separation Science.

● **DIGITAL SKILLS**

Personnel Skills

Ability to work effectively and efficiently under pressure | Ability to work in a team and autonomously | Able to adapt to new situations and system. | Good organizational and team work coordination skills | Good listener and communicator | Hard working, arranged, responsible | Research and analytical skills | Organizational and planning skills | Good Communication and Writing Skills

Software Skills

Data analysis and elaboration by using Excel and statistical analysis by Minitab | Data analysis and scientific graphics (SigmaPlot software) | Efficient in using research software viz. Endnote, Fullprof, WSxM, Xpert HighScore. | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Lab Software: Origin Professional, Chem Draw Professional 16.0, ACD, MestReNova

Web Skills

Browsing the Internet (experienced) | Google (Google Drive, Google Docs, Google Slides, Google Sheets, Google Meets, Google Trends)) | Video Conferencing (Zoom, Teams, Skype, Webex) - Advanced

● **ORGANISATIONAL SKILLS**

The 7th Conference for Young Scientists in Basic and Applied Sciences

Member of the organizing committee.

Link <https://www.aun.edu.eg/science/7th-conference-young-scientists-basic-and-applied-sciences>

The 6th International Conference for Young Scientists in Basic and Applied Sciences

Member of the organizing committee.

Link <https://www.aun.edu.eg/science/sixth-international-conference-young-scientists-basic-applied-sciences>

The second International Conference on Multidisciplinary Research

Member of the organizing committee.

Link <https://www.aun.edu.eg/science/second-international-conference-multidisciplinary-research-icmr-1>

● **VOLUNTEERING**

Peer reviewer in Food Analytical Methods Journal

Peer reviewer in Food Research International Journal

Peer reviewer in Heliyon Journal

Peer reviewer in International Journal of Materials Research Journal

Peer reviewer in Nanotechnology for Environmental Engineering Journal

Peer reviewer in Reproductive Sciences Journal

Peer reviewer in Waste Management Bulletin Journal

Peer reviewer in Water Science & Technology Journal

Peer reviewer in Reaction Kinetics, Mechanisms and Catalysis Journal

Guest editor in the Frontiers of Chemical Engineering journal

● NETWORKS AND MEMBERSHIPS

Assiut University, Egypt
Faculty of Science representative’ at Assiut University International Relation Office

Faculty of Science, Assiut University, Egypt
Member in Development of innovation and invention skills Committee

Assiut University, Egypt
Co-coordinator of Higher Studies and Research at Faculty of Science

Faculty of Science, Assiut University, Egypt
Social Participation Committee

Europe
The Society of Environmental Toxicology and Chemistry (SETAC)

● LANGUAGE SKILLS

Mother tongue(s): ARABIC
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
SPANISH	B2	B2	B2	B2	B1
CATALAN	A1	A1	A1	A1	A1
FRENCH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DRIVING LICENCE

Driving Licence: B

● PUBLICATIONS

2025
[Novel nanocomposite synthesis of carboxymethyl cellulose coated to zero-valent iron supported on chitosan for simultaneous removal of heavy metals and pesticides in water: Performance and mechanism](#)

Ahmad Abo Markeb, Javier Moral-Vico, Antoni Sánchez, Xavier Font, Results in Chemistry, 13 (2025) 102041

2024
[Multifunctionalized zirconium-based MOF as a novel support for dispersed copper: application in CO2 adsorption and catalytic conversion](#)

Albert Rosado, Ioana-Maria Popa, Ahmad Abo Markeb, Javier Moral-Vico, Eva Maria Naughton, Hans-Georg Eckhardt, José A Ayllón, Ana M López-Periago, Concepción Domingo, Leila Negahdar, Journal of Materials Chemistry A, 12(33) (2024) 21758-21771.

2024

[Green Supercritical CO₂ Synthesis of \[Copper Clusters@FeBTC\]@rGO Catalyst for Highly Efficient Hydrogenation of CO₂ to Methanol](#)

Márta Kubovics, Alejandro Borrás, Ahmad Abo Markeb, Gregorio Marbán, Javier Moral-Vico, Antoni Sánchez, Ana M López-Periago, Concepción Domingo, ACS Sustainable Chemistry & Engineering, 12(28), 10634-10646.

2024

[Water remediation using mesoporous silica monolith nanocomposites functionalized with Prussian blue](#)

Ahmad Abo Markeb, K Abdelhameed, WA El-Said, NA El-Maali, International Journal of Environmental Science and Technology, 21, 7615-7630.

2024

[Hexavalent chromium ion removal from wastewater using novel nanocomposite based on the impregnation of zero-valent iron nanoparticles into polyurethane foam](#)

Eman M Saad, Mohammed F Abd-Elhafiz, Eman M Ahmed, Ahmad Abo Markeb, Scientific Reports, 14(1) (2024) 5387.

2024

[Synthesis of Cobalt-Based Nanoparticles as Catalysts for Methanol Synthesis from CO₂ Hydrogenation](#)

Anna Carrasco-García, Seyed Alireza Vali, Zahra Ben-Abbou, Javier Moral-Vico, Ahmad Abo Markeb, Antoni Sánchez, Materials, 17(3) (2024) 697.

2023

[Recent advances in the catalytic conversion of methane to methanol: from the challenges of traditional catalysts to the use of nanomaterials and metal-organic frameworks](#)

Seyed Alireza Vali, Ahmad Abo Markeb, Javier Moral-Vico, Xavier Font, Antoni Sánchez, Nanomaterials, 13(20) (2023) 2754.

2023

[A novel Cu-based catalyst supported in chitosan nanoparticles for the hydrogenation of carbon dioxide to methanol: From the optimization of the catalyst performance to the reaction mechanism](#)

Seyed Alireza Vali, Ahmad Abo Markeb, Javier Moral-Vico, Xavier Font, Antoni Sánchez, Catalysis Communications, 182 (2023) 106747.

2023

[Optimization of lead \(II\) removal from water and wastewater using a novel magnetic nanocomposite of aminopropyl triethoxysilane coated with carboxymethyl cellulose cross-linked with chitosan nanoparticles](#)

Ahmad Abo Markeb, Javier Moral-Vico, Antoni Sánchez, Xavier Font, Arabian Journal of Chemistry, 16(8) (2023) 105022.

2023

[Magnetite-based nanoparticles and nanocomposites for recovery of overloaded anaerobic digesters](#)

Raquel Barrena, María del Carmen Vargas-García, Paula Catacora-Padilla, Teresa Gea, Ahmad Abo Markeb, Javier Moral-Vico, Antoni Sánchez, Xavier Font, Thomas J Aspray, Bioresource Technology, 372, 128632.

2022

[Conversion of carbon dioxide into methanol using Cu-Zn nanostructured materials as catalysts](#)

Anna Carrasco García, Javier Moral-Vico, Ahmad Abo Markeb, Antoni Sánchez, Nanomaterials, 12(6), 999.

2022

[Antibiofilm activity of carvacrol loaded chitosan nanoparticles against *Listeria monocytogenes*](#)

Mahmoud Ammar Mohamed Ammar, Ahmad Abo Markeb, Ahmed Mohamed Abuzeid, Abd El-Malek, Ashraf Mohamed, Talaat Sayed Aly El-khateib, Malaysian Journal of Microbiology, 18(2), 204-214.

2021

One-Pot Synthesis of Some New s-Triazole Derivatives and Their Potential Application for Water Decontamination

Zeinab A. Hozien, Ahmed FM EL-Mahdy, Laila S. A. Ali, Ahmad Abo Markeb, Hassan AH El-Sherief, ACS Omega, 6(39), 25574-25584.

2021

Enhancement of β -Glucan Biological Activity Using a Modified Acid-Base Extraction Method from *Saccharomyces cerevisiae*

Enas Mahmoud Amer, Saber H Saber, Ahmad Abo Markeb, Amal A Elkhawaga, Islam Mekhemer, Abdel-Naser A Zohri, Steve Harakeh, Elham A Abd-Allah, Molecules, 26(8), 2113.

2021

Markers of local and systemic estrogen metabolism in endometriosis

Essam R Othman, Ahmad Abo Markeb, Maha Y Khashbah, Ibrahim I Abdelaal, Tarek T ElMelegy, Ahmed N Fetih, Lisette E Van der Houwen, Cornelis B Lambalk, Velja Mijatovic, Reproductive Sciences, 28, 1001-1011.

2020

Synthesis of Schiff and Mannich bases of new s-triazole derivatives and their potential applications for removal of heavy metals from aqueous solution and as antimicrobial agents

Zeinab A. Hozien, Ahmed F. M. EL-Mahdy, Ahmad Abo Markeb, Laila S. A. Ali, Hassan A. H. El-Sherief, RSC advances, 10(34), 20184-20194.

2019

In vitro-exploration of fungal endophytes of Egyptian *Cynara scolymus* L.(artichoke) and investigation of some their bioactive potentials

HS Nermien, A Thabet, Ahmad Abo Markeb, DM Sayed, NA El-Maali, Global Nest Journal, 21(3), 296-308.

2019

The use of magnetic iron oxide based nanoparticles to improve microalgae harvesting in real wastewater

Ahmad Abo Markeb, Jordi Llimós-Turet, Ivet Ferrer, Paqui Blaquez, Amanda Alonso, Antoni Sánchez, Javier Moral-Vico, Xavier Font, Water Research Journal, 159, 490-500.

2019

Corrigendum to:" Synthesis of polyethylene/silica-silver nanocomposites with antibacterial properties by in situ polymerization

Giovani Pavoski, Renan Kalikoski, Gustavo Souza, Luiz Fernando Wentz Brum, Cristiane dos Santos, Ahmad Abo Markeb, João Henrique Zimnoch dos Santos, Xavier Font, Griselda Barrera Gallan, European Polymer Journal, 112, 530.

2018

Curcumin analogue 1, 5-bis (4-hydroxy-3-((4-methylpiperazin-1-yl) methyl) phenyl) penta-1, 4-dien-3-one mediates growth arrest and apoptosis by targeting the PI3K/AKT/mTOR and PKC-theta signaling pathways in human breast carcinoma cells

Gamal Badr, Halise Inci Gul, Cem Yamali, Amal AM Mohamed, Badr M Badr, Mustafa Gul, Ahmad Abo Markeb, Nagwa Abo El-Maali, Journal of Bioorganic Chemistry, 78, 46-57.

2018

Synthesis of polyethylene/silica-silver nanocomposites with antibacterial properties by in situ polymerization

Giovani Pavoski, Renan Kalikoski, Gustavo Souza, Luiz Fernando Wentz Brum, Cristiane dos Santos, Ahmad Abo Markeb, João Henrique Zimnoch dos Santos, Xavier Font, Ignacio dell'Erba, Griselda Barrera Galland, European Polymer Journal, 106, 92-101.

2017

Core-shell Au/CeO₂ nanoparticles supported in UiO-66 beads exhibiting full CO conversion at 100 °C

A. Yazdi, Ahmad Abo Markeb, L. Garzón-Tovar, J. Patarroyo, J. Moral-Vico, A. Alonso, A. Sanchez, N. G. Bastús, I. Imaz, X. Font, V. Puentes and D. MasPOCH, Journal of Material Chemistry A, 5(27), 13966-13970.

2017

Adsorption process of fluoride from drinking water with magnetic core-shell Ce-Ti@Fe₃O₄ and Ce-Ti oxide nanoparticles

Ahmad Abo Markeb, Amanda Alonso, Antoni Sánchez, Xavier Font, Science of the Total Environment, 598, 949–958.

2017

Critical review of existing nanomaterial adsorbents to capture carbon dioxide and methane

Amanda Alonso, J. Moral-Vico, Ahmad Abo Markeb, Martí Busquets-Fité, Dimitrios Komilis, Victor Puentes, Antoni Sánchez, Xavier Font, Science of the Total Environment, 595, 51–62.

2016

Novel magnetic core-shell Ce-Ti@Fe₃O₄ nanoparticles as an adsorbent for water contaminants removal

Ahmad Abo Markeb, Laura A. Ordosgoitia, Amanda Alonso, Antoni Sanchez and Xavier Font, RSC Advances, 6(62), 56913-56917.

2016

Phosphate removal and recovery from water using nanocomposite of immobilized magnetite nanoparticles on cationic polymer

Ahmad Abo Markeb, Amanda Alonso, Antonio David Dorado, Antoni Sánchez and Xavier Font, Environmental Technology, 37(16), 2099–2112.

2016

Synthesis, Structural Characterization, and Preclinical Efficacy of a Novel Paclitaxel-Loaded Alginate Nanoparticle for Breast Cancer Treatment

Ahmad A. Markeb, Nagwa A. El-Maali, Douaa M. Sayed, Amany Osama, Mohamed A. Y. Abdel-Malek, Amen H. Zaki, Mostafa E. A. Elwanis, and James J. Driscoll, International Journal of Breast Cancer, 2016, 1-8.

2014

Simultaneous quantitation of 5- and 7-hydroxyflavone antioxidants and their binding constants with BSA using dual chiral capillary electrophoresis (dCCE) and HPLC with fluorescent detection

Ahmad Abo Markeb, Nagwa Abo El-Maali, Talanta, 119, 417-424.

2024

Synthesis of Fe₃O₄@BAMTM for removing inorganic and organic contaminants from an aqueous solution: Screening and optimization

Ahmad Abo Markeb, Abdelreheem Abdelfatah Saddik, Ahmed Abdelrahim Elgaffary, Adel M. Kamal El-Dean, Abdel-Aal M. Gaber, Egyptian Sugar Journal, 22, 69-79.

2019

Bioactive compounds and antioxidant activity of the non-edible parts of two taxa from Egyptian Artichoke (Cynara scolymus L.)

Abdulah Thabet, Ahmad Abo Markeb, Nermien H. Seddek, Douaa Sayed, Nagwa Abo El-Maali, Assiut University Journal of Chemistry of Multidisciplinary Scientific Research, 48, 1-15.

2014

Nanotecnología para el medio ambiente. eliminación de contaminantes mediante nanomateriales

Xavier Font, Amanda Alonso, Ada Rebeca Contreras, Ahmad Abo Markeb, Antoni Sánchez, Industria Química, 13, 92-97.