

CURRICULUM VITAE

Full Name : Ahmed Ali Ahmed Farghali
Affiliation : Dean of Faculty of Postgraduate Studies for
Advanced Sciences, Beni-Suef University, Beni-
Suef, Egypt
Field of specialization: Materials science and Nanotechnology



PERSONAL INFORMATION

Place of birth : El Minya, Egypt
Date of Birth : 26 / 1 / 1974.
Nationality : Egyptian
Social Status : Married

CONTACT INFORMATION

Address : Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University,
62511 Beni-Suef, Egypt
Mob : +2 0100 2869905
E. mail : ahmedfarghali74@yahoo.com

ACADEMIC PROFILE

- Professor of Materials Science and Nanotechnology at Faculty of Postgraduate Studies for Advanced Science, Beni-Suef University from 2018 till now.
- Associate Professor of Materials Science and Nanotechnology at Faculty of Postgraduate Studies for Advanced Science, Beni-Suef University from 2016-2018.
- Associate Professor of physical chemistry at Faculty of Science, Beni-Suef University from 2013-2016.
- Lecturer of physical chemistry at Faculty of Science, Beni-Suef University from 2006-2013.
- Assistant lecturer at Chemistry Department, Faculty of Science, Beni-Suef University from 2000 to 2006.
- Demonstrator at Chemistry Department, Faculty of Science, Beni-Suef University from 1996 to 2000

Education

- **B.Sc.** (Special Chemistry), Beni-Suef Faculty of Science, Cairo University May (1995).
- **M.Sc.** (Physical Chemistry), Beni-Suef Faculty of Science, Cairo University- September (2000)
On; (The Reduction and reoxidation Kinetics of cerium (IV) Oxide as probed by electrical conductivity measurements).
- **Ph.D.** (Physical Chemistry- Surface chemistry) Faculty of Science, Minia University, El Minia- Egypt (Feb. 2006)

On; (Surface texture study for the reduction and reoxidation of nano-crystalline copper ferrites).

LEADERSHIP POSITIONS AT BENI-SUEF UNIVERSITY

- Dean of the Faculty of postgraduate studies for advanced sciences (PSAS) from 2019 till now
- Former Vice Dean for Postgraduate Studies and Research, Faculty of postgraduate studies for advanced science (PSAS), Beni-Suef University (BSU) from 2015-2019
- Exécutive Manager of the Scientific Research Development Unit(SRDU), Beni-Suef University from 2015 till 2020
- Head of Materials Science and Nanotechnology Department at Faculty of Postgraduate Studies for Advanced Science, Beni-Suef University from 2013-2015.
- Director of Central Lab at Faculty of postgraduate studies for advanced sciences (PSAS) from 2013 to 2015.

MSC AND PHD STUDENTS SUPERVISION

Total number of supervisions is 77 MSc and PhD Students

- (48) Awarded theses
- (29) Registered theses

AREA OF INTEREST IN RESEARCH;

In a laboratory, constructed for nano-science, nano-technology and advanced materials applications in environment, medicine, industry, energy etc, I am interested in;

- Production of nanomaterials from different precursors (naturally and chemically) by novel methods invented by the laboratory group.
- Characterization of nano-materials by different tools of analysis.
- Studying the magnetic and electrical properties of nano-sized materials.
- Studying the catalytic and photocatalytic activity of nanomaterials towards some environmental processes such as CO₂ decomposition, CO oxidation and waste water treatment.
- Studying some medical and pharmaceutical applications of nanomaterials.
- Controlling Morphology for gas sensing and water splitting applications.
- Hydrogen storage and production.
- Production of nanovaccines.

ACADEMIC TEACHING

I am teaching the following courses at Beni-Suef University

Postgraduate students:

- Nanotubes production to application
- Fundamentals of Nanoscience

Under graduate students:

For the undergraduate students - faculty of science and faculty of education – I teach the following courses; Thermochemistry, States of matter, Chemical kinetics, Catalysis and surface chemistry, Nuclear chemistry, Phase equilibria and Phase rule.

CONFERENCES

No	Conference Title	Type of participation	Place	Date
1	The 1 st Arabic conference in applied chemistry Nov. 1999 , Beni-sueif -EGYPT	<u>organizer and oral presentation</u>	Beni-Suef,	Nov., 1999
2	International conference on material science and technology	<u>organizer and oral presentation</u>	Beni-Suef, Egypt	April, 2000
3	1 st international conference on new trends in chemistry and their applications.	<u>organizer and oral presentation</u>	Beni-Suef, Ain Sukhna. Egypt	2002
4	[Fourth Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials (JAPMED'4)]	<u>oral presentation</u>	Cairo - Egypt	September 17-20, 2005
5	1 st Afro-Asian conference on Advanced Material Science and Technology	<u>Poster presentation</u>	Cairo, Egypt	2006
6	2 nd International conference on new trends in chemistry and their applications	<u>Oral presentation</u>	Hurghada, Egypt	13-15 Feb. 2008
7	The 1st International Workshop on Advanced Materials (RAK-CAM)	<u>Oral presentation</u>	Ras Al Khaimah, UAE.	21-24 February 2009
8	6th World Congress on Oxidation Catalysis (6WCOC 2009)	<u>Poster presentation</u>	Lille, France.	5 th to 10 th July 2009
9	THE third Arab International conference in Physics and Materials Science.	<u>Oral presentation</u>	Bibliotheca Alexandrina, Alexandria, Egypt.	20 – 22 October 2009
10	The 2nd International Workshop on Advanced Materials (RAK-CAM 2010).	<u>Poster presentation</u>	Ras Al Khaimah, UAE.	21-24 February 2010
11	International conference on Materials Imperatives in the Millenium ((MINM2010)	<u>Oral presentation</u>	Cairo, EGYPT	Nov., 29 – Dec., 2 2010
12	Nanomaterials and Nanocatalysis for Energy, Petrochemicals and Environmental Applications. US-EGYPT	<u>Oral presentation</u>	Cairo, EGYPT	Mar, 28- April, 4 2010
13	4 th International conference on	<u>Oral presentation</u>	Cairo, EGYPT	Mar, 25-26, 2012

	Nanotechnology in Construction (NTC2012)			
14	The XXIX international Conference on solid state science and materials Physics & Workshop on Photonic Crystals and Graphene	<u>Oral presentation</u>	Sharm Elsheikh, Egypt.	03-06 October 2011
15	Veneto Nanotechitaly 2012	<u>Poster presentation</u>	Venice, Italy	November 21-23, 2012
16	Seventh International Conference on Material Sciences (CSM7)	<u>Oral presentation</u>	Beirut - Lebanon	May 20 – 22, 2010
17	The International Conference on Materials Science and its Applications	<u>Oral presentation</u>	Taif, Saudi Arabia.	13-15 Feb. 2012
18	1st International Conference on Advanced Basic & Applied Sciences ABAS	<u>organizer and oral presentation</u>	Hurgada, Egypt ,	6-9 Nov. 2012
19	11 th International Conference on Chemistry and its Role in Development ICCRD'11	<u>Oral presentation</u>	Mansoura-Sharm El-Sheikh	March 11-15, 2013
20	1 st Workshop Nanothehnology and Advanced Materials	<u>Organizer</u>	HBRC, Cairo	3 Oct., 2014
21	International conference for Nanotechnology environmental impacts	<u>Organizer</u>	Beni-Suef, Egypt	4 May 2015
22	3 rd International conference on Basic and Applied Sciences (ABAS3)	<u>Organizer + oral presentation</u>	Hurgada, Egypt ,	17-20 November 2015
23	International conference ON NANOTECHNOLOGY, NanoPorto, INL,	<u>Poster presentation</u>	Portugal	16-19 Februray2016,
24	4 th International conference on Advanced Sciences ICAS4	<u>Organizer, Co-Chairman</u>	Hurgada, Egypt ,	7-10 november 2017
25	THE (times higher education)-University Rankings	<u>Attendance, BSU representative</u>	King Abdul Aziz Univeristy, Jeddah, Saudi Arabia	19-21 March 2018
26	5 th international conference of advanced sciences (ICAS5)	<u>Chairman</u>	Hughada-Egypt	10-12 November 2019
	15 th International Conference on Chemistry and its Role in Development	<u>Oral</u>	Hughada-Egypt	9-13 August 2021

TRAINING COURSES AND WORKSHOPS

No	Field	Title	Place	Date
1	English	Toefl preparatory cours	Cairo University	2005
2	Educational	Lecturer preparation course	Cairo University	2005
3	Educational	Using technology in teaching	(Beni-Suef University) (FLDP)	<u>2012</u>
4	Educational	Publishing international articles	(Beni-Suef University) (FLDP)	<u>2013</u>
5	Educational	Time management	(Beni-Suef University) (FLDP)	<u>2006</u>
6	Educational	Financial and lawyal regulations in Universities	(Beni-Suef University) (FLDP)	<u>2013</u>
7	Scientific	Applying the ISO regulations in the university.	(Beni-Suef University) (FLDP)	<u>2010</u>
8	Scientific	How to write a competitive Research project.	(Beni-Suef University Research center	<u>Organizer 2011</u>
9	Scientific	How to write a competitive Research project.	(Beni-Suef University Research center	<u>Organizer 2012</u>
10	Scientific	How to write a competitive Research project.	(Beni-Suef University Research center	<u>Organizer 2013</u>
11	Scientific	Nanotechnology training course	(Beni-Suef University Research center	Organizer 2009
12	Scientific	Nanotechnology training course	(Beni-Suef University Research center	Organizer 2010
13	Scientific	Nanotechnology training course	(Beni-Suef University Research center	Organize 2011
14	Scientific	Nanotechnology training course	(Beni-Suef University Research center	Organizer 2012
15	Scientific	Nanotechnology training course	(Beni-Suef University Research center	Organizer 2013
16	Scientific	Electron microscopy	Beni-Suef University, Central Lab.	2010
17	Scientific	Transmission Electron Microscopy	KTH, Sweden	2012
18	Scientific	Scanning Electron Microscopy	KTH, Sweden	2012

19	Scientific	Focused ion Beam Scanning Electron Microscopy	KTH, Sweden	2012
20	Scientific	ICP and Atomic Absorption	KTH, Sweden	2012
21	Scientific	FTIR and UV Spectrometry	KTH, Sweden	2012
22	Scientific	Thermal Analysis	KTH, Sweden	2012
23	Scientific	FTIR and FT-Raman Spectrometry	Etlengen, Germany	2013
24	Scientific	Basics of XRD	Almelo, Netherlands	2014
25	Management	How to write a proposal	Beni-Suef University	2015
26	Attendance	Training Course in the International ranking of the universities- organized by the arab Universities Union	Cairo University	25-28 October 2016
27	Management	Higher education Institutes Management System, IVLP 2016 Program	USA	Aug. 18- Sept. 8 2016
28	Management	Avoiding plagiarism	Beni-Suef University	2017
29	Management and attendance	“Nanotechnology: future and challenges” at in collaboration with EKB- Nano.nature -Springer	PSAS- Beni-Suef University	12 February 2019
30	Management and attendance	workshop on Web of Science-Clarivate -EKB	Faculty of medicine, BSU,	21 April 2019
31	Management and attendance	Masterclass, Nature master class, Scientific Writing,	PSAS, Beni-Suef University	9-10 October 2019
32	Management and attendance	+Info session on “Egyptvision 2030, SDS-towards Sustainable development goals- how to organize the research plan”	Beni-Suef University	November 2019
33	Management and attendance	Chemical Inventory Management & Waste Minimization Workshop	Four Seasons Hotel, Giza	18-20 February 2020

PROJECTS:

No.	Title	Funding Agency	Total Fund
1	Synthesis and Characterization of TiO ₂ Nanotubes (TiO ₂ NTs) Filled with Highly Efficient Nanoalloys	STDF	1 Million EGP
2	A new 3-way catalyst for car exhaust	Swedish - Egyptian grant	0.5 Million Krona
3	Core shell nanoparticles for dyes removal in river water	Cairo University	200,00 EGP
4	Plasma assisted preparation of nano metal oxides	US - Egyptian grant (STDF)	200,000 \$

5	Chemical Routes to Nanostructured Materials for Solar Cell Applications	South African - Egyptian grant (ASRT)	200,000 EGP
6	Scaling up of fully solar powered photochemical - biological wastewater treatment using photosynthetic oxygenation	ASRT	400,000 EGP
7	Controlling size and shape of nanoCuO for environmental problems.	STDF	100,000 EGP
8	Doped TiO ₂ /graphene nano composites for large scale H ₂ production from waste water	STDF	100,000 EGP
9	Preparation and characterization of nanoparticles for free radical scavenging	STDF	100,000 EGP
10	Synthesis of innovative hollow fibers polymer nanocomposite for selective removal of arsenic from drinking and ground water	STDF	100,000 EGP
11	Conversion of plastic to oil	BSU	65,000 EGP
12	Formulation and Evaluation of Topical Formulations Containing U.V. Shielding Nano-Metallic components	BSU	65,000 EGP
13	Nanocomposites, a novel approach to optimize, purify and enhance the antibacterial activity of a potent bacteriocin (Enterocin OS13)	BSU	65,000 EGP
14	Titanate nanostructures for removal of toxic heavy metals from drinking water and in vitro evaluation of cytotoxic effects on human normal cell lines (liver and kidney).	Princess NourahbintAbdulrahman University, Saudi Arabia	171,600 Saudi Riyal

PATENTS

Approved patents:

- Ultrafast and Scalable Purification of Graphene Oxide Colloid and Miscellaneous Colloids Using a Novel Setup Including hollow fibers dialyzer, **491/2017 (Egyptian Patent Office)**

submitted Patents:

- Fast technique for production printed electronics using expanded graphite, **1389/2018 (Egyptian Patent Office)**

AUTHOR PROFILE FROM SCOPUS

<i>A.A.Farghali, Beni-Suef University</i>	<i>H-index</i>	<i>Citations</i>
Scopus ID: 8922238500	30	2634
ORCID:0000-0002-9270-9855	From Scopus 25-10-2022	
Total Number of Articles on Scopus	136	
The highest cited article	187	

LIST OF PUBLICATIONS

- [1] M.S. Attia, G.S. El-Sayyad, M. Abd Elkodous, W.F. Khalil, M.M. Nofel, A.M. Abdelaziz, A.A. Farghali, A.I. El-Batal, W.M.A. El Rouby, Chitosan and EDTA conjugated graphene oxide antinematodes in eggplant: Toward improving plant immune response, *Int. J. Biol. Macromol.* (2021).
- [2] N. Elgiddawy, S. Ren, W. Ghattas, W. Rouby, M.A. El, A. O El-Gendy, A. A Farghali, A. Yassar, H. Korri-Youssoufi, Antimicrobial Activity of Cationic Poly (3-hexylthiophene) Nanoparticles Coupled with Dual Fluorescent and Electrochemical Sensing: Theragnostic Prospect, *Sensors*. 21 (2021) 1715.
- [3] R. Saleh, A.H. Zaki, F.I.A. El-Ela, A.A. Farghali, M. Taha, R. Mahmoud, Consecutive removal of heavy metals and dyes by a fascinating method using titanate nanotubes, *J. Environ. Chem. Eng.* 9 (2021). <https://doi.org/10.1016/j.jece.2020.104726>.
- [4] M.H. Elbakkay, W.M.A. El Rouby, A. Mariño-López, A. Sousa-Castillo, V. Salgueiriño, S.I. El-Dek, A.A. Farghali, M.A. Correa-Duarte, P. Millet, One-pot synthesis of TiO₂/Sb₂S₃/RGO complex multicomponent heterostructures for highly enhanced photoelectrochemical water splitting, *Int. J. Hydrogen Energy.* (2021). <https://doi.org/10.1016/j.ijhydene.2021.07.012>.
- [5] S.A. Mostafa, M.M. EL-Deeb, A.A. Farghali, A.S. Faried, Evaluation of the nano silica and nano waste materials on the corrosion protection of high strength steel embedded in ultra-high performance concrete, *Sci. Rep.* 11 (2021). <https://doi.org/10.1038/s41598-021-82322-0>.
- [6] S.M. Mostafa, A.A. Farghali, M.M. Khalil, Novel Zn-Fe LDH/MWCNTs and Graphene/MWCNTs Nanocomposites Based Potentiometric Sensors for Benzylamine Determination in Biological Fluids and Real Water Samples, *Electroanalysis*. 33 (2021) 1194–1204. <https://doi.org/10.1002/elan.202060455>.
- [7] H. Awes, Z. Zaki, S. Abbas, H. Dessoukii, A. Zaher, S.A.A.-E. Moaty, N. Shehata, A. Farghali, R.K. Mahmoud, Removal of Cu²⁺ metal ions from water using Mg-Fe layered double hydroxide and Mg-Fe LDH/5-(3-nitrophenylazo)-6-aminouracil nanocomposite for enhancing adsorption properties, *Environ. Sci. Pollut. Res.* (2021). <https://doi.org/10.1007/s11356-021-13685-0>.
- [8] A.A. Farghali, S.I. El-Dek, M.H. Elbakkay, W.M.A. El Rouby, Synergistic Effect of High-Performance N, S–TiO₂/N, S–RGO Nanocomposites for Photoelectrochemical Water Oxidation, *ECS J. Solid State Sci. Technol.* 9 (2020) 31002.

- [9] W.F. Khalil, G.S. El-Sayyad, W.M.A. El Rouby, M.A. Sadek, A.A. Farghali, A.I. El-Batal, Graphene oxide-based nanocomposites (GO-chitosan and GO-EDTA) for outstanding antimicrobial potential against some *Candida* species and pathogenic bacteria, *Int. J. Biol. Macromol.* 164 (2020) 1370–1383.
- [10] M.M. Khalil, A.A. Farghali, W.M.A. El Rouby, I.H. Abd-Elgawad, preparation and characterization of novel MWents/fe-co doped tnts nanocomposite for potentiometric determination of sulphiride in real water samples, *Sci. Rep.* 10 (2020) 1–9.
- [11] A.E.A. Aboubakr, W.M.A. El Rouby, M.D. Khan, A.A. Farghali, N. Revaprasadu, ZnCr-CO3 LDH/ruptured tubular g-C3N4 composite with increased specific surface area for enhanced photoelectrochemical water splitting, *Appl. Surf. Sci.* 508 (2020) 145100.
- [12] M.A. Wasfey, A. Abdelwahab, F. Carrasco-Marín, A.F. Pérez-Cadenas, H.H. Abdullah, I.S. Yahia, A.A. Farghali, Nickel cobaltite functionalized silver doped carbon xerogels as efficient electrode materials for high performance symmetric supercapacitor, *Materials (Basel)*. 13 (2020) 1–16. <https://doi.org/10.3390/ma13214906>.
- [13] W.M.A. El Rouby, A.E.A. Aboubakr, M.D. Khan, A.A. Farghali, P. Millet, N. Revaprasadu, Synthesis and characterization of Bi-doped g-C3N4 for photoelectrochemical water oxidation, *Sol. Energy*. 211 (2020) 478–487. <https://doi.org/10.1016/j.solener.2020.09.008>.
- [14] G.Y.A. El-Reesh, A.A. Farghali, M. Taha, R.K. Mahmoud, Novel synthesis of Ni/Fe layered double hydroxides using urea and glycerol and their enhanced adsorption behavior for Cr(VI) removal, *Sci. Rep.* 10 (2020). <https://doi.org/10.1038/s41598-020-57519-4>.
- [15] A.-S.A.-H.H. El-Naby, S. Ibrahim, H.F. Hozyen, A.S.A. Sosa, K.G.M. Mahmoud, A.A. Farghali, Impact of nano-selenium on nuclear maturation and genes expression profile of buffalo oocytes matured in vitro, *Mol. Biol. Rep.* 47 (2020) 8593–8603. <https://doi.org/10.1007/s11033-020-05902-9>.
- [16] S.A.A. Moaty, R.K. Mahmoud, N.A. Mohamed, Y. Gaber, A.A. Farghali, M.S.M.A. Wahed, H.A. Younes, Synthesis and characterisation of LDH-type anionic nanomaterials for the effective removal of doxycycline from aqueous media, *Water Environ. J.* 34 (2020) 290–308. <https://doi.org/10.1111/wej.12526>.
- [17] D. Refaat, A.A. Farghali, A.A. Yousif, M.G. Aggour, M.H. Khedr, The role of NaOH content, grinding time, and drying temperature in controlling the shape and size of nano ZnO Synthesized by a green chemistry approach, *Egypt. J. Chem.* 63 (2020) 3597–3606. <https://doi.org/10.21608/ejchem.2020.21089.2264>.
- [18] S.A. Mostafa, A.S. Faried, A.A. Farghali, M.M. El-Deeb, T.A. Tawfik, S. Majer, M.A. Elrahman, Influence of nanoparticles from waste materials on mechanical properties, durability and microstructure of uhpc, *Materials (Basel)*. 13 (2020) 1–22. <https://doi.org/10.3390/ma13204530>.
- [19] S.M. Mahgoub, M.R. Shehata, F.L.A. El-Ela, A. Farghali, A. Zaher, R.K. Mahmoud, Sustainable waste management and recycling of Zn-Al layered double hydroxide after adsorption of levofloxacin as a safe anti-inflammatory nanomaterial, *RSC Adv.* 10 (2020) 27633–27651. <https://doi.org/10.1039/d0ra04898d>.
- [20] H.H. Kora, M. Taha, A.A. Farghali, S.I. El-Dek, First-Principles Study of the Geometric and Electronic Structures and Optical Properties of Vacancy Magnesium Ferrite, *Metall. Mater. Trans. A Phys. Metall. Mater. Sci.* 51 (2020) 5432–5443. <https://doi.org/10.1007/s11661-020-05925-8>.
- [21] S.M. Mahgoub, M.R. Shehata, F.I.A. El-Ela, A. Farghali, A. Zaher, R.K. Mahmoud, Erratum:

Sustainable waste management and recycling of Zn-Al layered double hydroxide after adsorption of levofloxacin as a safe anti-inflammatory nanomaterial (RSC Advances(2020) 10 (27633-27651) DOI: 10.1039/D0RA04898D), RSC Adv. 10 (2020) 29128. <https://doi.org/10.1039/d0ra90083d>.

- [22] H.H. Kora, M. Taha, A. Abdelwahab, A.A. Farghali, S.I. El-Dek, Effect of pressure on the geometric, electronic structure, elastic, and optical properties of the normal spinel MgFe₂O₄: A first-principles study, *Mater. Res. Express.* 7 (2020). <https://doi.org/10.1088/2053-1591/abc049>.
- [23] R.K. Mahmoud, A.A. Kotp, A.G. El-Deen, A.A. Farghali, F.I.A. El-Ela, Novel and Effective Zn-Al-GA LDH Anchored on Nanofibers for High-Performance Heavy Metal Removal and Organic Decontamination: Bioremediation Approach, *Water. Air. Soil Pollut.* 231 (2020). <https://doi.org/10.1007/s11270-020-04629-4>.
- [24] N. Elgiddawy, S. Ren, A. Yassar, A. Louis-Joseph, H. Sauriat-Dorizon, W.M.A. El Rouby, A.O. El-Gendy, A.A. Farghali, H. Korri-Youssoufi, Dispersible Conjugated Polymer Nanoparticles as Biointerface Materials for Label-Free Bacteria Detection, *ACS Appl. Mater. Interfaces.* 12 (2020) 39979–39990. <https://doi.org/10.1021/acsami.0c08305>.
- [25] H.A. El-Raheem, R.Y.A. Hassan, R. Khaled, A. Farghali, I.M. El-Sherbiny, Polyurethane-doped platinum nanoparticles modified carbon paste electrode for the sensitive and selective voltammetric determination of free copper ions in biological samples, *Microchem. J.* 155 (2020). <https://doi.org/10.1016/j.microc.2020.104765>.
- [26] M.B.A. Elhaleem, A.A. Farghali, A.A.G. El-Shahawy, F.I.A. El-Ela, Z.E. Eldine, R.K. Mahmoud, Chemisorption and sustained release of cefotaxime between a layered double hydroxide and polyvinyl alcohol nanofibers for enhanced efficacy against second degree burn wound infection, *RSC Adv.* 10 (2020) 13196–13214. <https://doi.org/10.1039/c9ra08355c>.
- [27] S.M. Mostafa, A.A. Farghali, M.M. Khalil, Novel potentiometric sensors based on α -cyclodextrin and dibenzo 18-crown-6 ionophores/mesoporous silica nanoparticles for clidinium determination, *Int. J. Electrochem. Sci.* 15 (2020). <https://doi.org/10.20964/2020.04.48>.
- [28] A.A.A. Aleem, E. Khaled, A.A. Farghali, A. Abdelwahab, M.M. Khalil, β -Cyclodextrin / carbon xerogel based potentiometric screen printed sensor for determination of meclufenoxate hydrochloride, *Int. J. Electrochem. Sci.* 15 (2020). <https://doi.org/10.20964/2020.04.28>.
- [29] A.A.G. El-Shahawy, S.A.A. Moaty, A.H. Zaki, N.A. Mohamed, Y. Gadelhak, R.K. Mahmoud, A.A. Farghali, Prostate cancer cellular uptake of ternary titanate nanotubes/CuFe₂O₄/Zn-Fe mixed metal oxides nanocomposite, *Int. J. Nanomedicine.* 15 (2020) 619–631. <https://doi.org/10.2147/IJN.S228279>.
- [30] I.M. El-Kattana, M.A. Abdelzahera, A.A. Farghalib, Positive impact of ultra fine-ceramic waste on the physico-mechanical features and microstructure of white cement pastes composites, *J. Mater. Res. Technol.* 9 (2020) 9395–9402. <https://doi.org/10.1016/j.jmrt.2020.05.087>.
- [31] A. Zaher, M. Taha, A.A. Farghali, R.K. Mahmoud, Zn/Fe LDH as a clay-like adsorbent for the removal of oxytetracycline from water: combining experimental results and molecular simulations to understand the removal mechanism, *Environ. Sci. Pollut. Res.* 27 (2020) 12256–12269. <https://doi.org/10.1007/s11356-020-07750-3>.
- [32] A.H. Zaki, M. Abdel Hafiez, W.M.A. El Rouby, S.I. El-Dek, A.A. Farghali, Novel magnetic standpoints in Na₂Ti₃O₇ nanotubes, *J. Magn. Magn. Mater.* 476 (2019). <https://doi.org/10.1016/j.jmmm.2019.01.002>.

- [33] S.G. Sayed, W.M.A. El Rouby, A.A. Farghali, Preparation and characterization of (CeO₂) – (Fe₂O₃)_{1-x} nanocomposites: reduction kinetics and hydrogen storage, *Rare Met.* (2019). <https://doi.org/10.1007/s12598-019-01244-z>.
- [34] S. Rashad, A.H. Zaki, A.A. Farghali, Morphological effect of titanate nanostructures on the photocatalytic degradation of crystal violet, *Nanomater. Nanotechnol.* 9 (2019) 1847980418821778.
- [35] Y. GadelHak, W.M.A. El Rouby, A.A. Farghali, Au-decorated 3D/1D titanium dioxide flower-like/rod bilayers for photoelectrochemical water oxidation, *Electrochim. Acta.* 306 (2019). <https://doi.org/10.1016/j.electacta.2019.03.118>.
- [36] A.E.A. Bakr, W.M.A. El Rouby, M.D. Khan, A.A. Farghali, B. Xulu, N. Revaprasadu, Synthesis and characterization of Z-scheme α -Fe₂O₃ NTs/ruptured tubular g-C₃N₄ for enhanced photoelectrochemical water oxidation, *Sol. Energy.* 193 (2019) 403–412.
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