CURRICULUM VITAE

PERSONAL DATA

Name	Mohamed Nady Abd El-Hameed Ibrahim
Nationality	Egyptian
Position	Associate Professor of Physical Chemistry
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EDUCATION

Year	Academic Degree	Institution
2007	Bachelor of Chemistry	Chemistry Department, Faculty of Science, Assiut University, Egypt
2013	Master in Physical Chemisty	Chemistry Department, Faculty of Science, Assiut University, Egypt
2017	PhD in Physical Chemistry	Chemistry Department, Faculty of Science, Assiut University, Egypt

WORK EXPERIENCE

Period	Position	Address
November, 2007-January 2013	Demonstrator	Chemistry Department, Faculty of Science, Assiut University, Egypt
March 2013-February 2017	Assistant Lecturer	Chemistry Department, Faculty of Science, Assiut University, Egypt
March 2017-June 2022	Assistant Professor of Physical Chemistry	Chemistry Department, Faculty of Science, Assiut University, Egypt
July 2022-April 2024	Associate Professor of Physical Chemistry	Chemistry Department, Faculty of Science, Assiut University, Egypt
April 2024- Augest 2025	Assistant Professor of Physical Chemistry	Department of Chemistry, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia

Augest 2025- till Now	Associate Professor of Physical Chemistry	Department of Chemistry, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia

RESEARCH INTERESTS

- Heterogenous Catalysis
- Preparation of nanomaterial-based catalysts.
- Sysnthesis and characterizations of materials and their applications (energy &biology).
- Wastewater treatments.
- Characterization of the materials by various methods including XRD, ICP, SEM, TEM, spectroscopy (NMR, IR, UV-Vis.), surface area measurements, elemental analyses, conductivity measurements, magnetic susceptibility, TPD&TPR measurements, XRF and thermal analysis.

LIST of SARED PROJECTS

1. Synthesis of dimethyl ether as a future biofuel for reduction of gas emissions over novel modified clay catalysts funded by STDF, Egypt, Project ID: 46968) (In Progress).
2. Utilization of Natural Egyptian Clays Instead of Sulfuric Acid in Manufacturing of Esters (funded by STDF, Egypt, Project ID: 3009) (Finished).
3. Using Metakaolin as a Pozzolanic Material for Improving Cement in High Strength Concrete and Sulfate Resistance (funded by CEMEX Company, Egypt).
4. Utilization of black shales as an alternative fuel in cement industry (funded by CEMEX Company, Egypt) (Finished).
5. Development of marketable oil and organic waste absorbing products from indigenous sugar cane waste (Bagasse) (funded by STDF, Egypt, Project ID: 479) (Finished).

AWARDS

1- The best Scientific paper in chemistry, Assiut University (2014) (Prof. Dr. Mohamed R. Mahmoud Prize).
2- The highest impact factor prize in chemistry, Faculty of Science, Assiut University (2017).
3- The best Scientific paper in chemistry, Faculty of Science, Assiut University (2019).

PATENTS

Over 20 patents related to the energy applications were published

1. *Synthesis of nanocomposite for green energy production, US12286349B1.*
2. Carbon-supported copper manganite nanoparticles for biofuel production, US12275003B1
3. *Method of catalytic degradation of phenylbutazone with zerovalent cerium supported biochar beads, US12330969B1*
4. *Zinc-vanadium catalyst for hydrogen generation, US12312241B1*
5. *Biomass derived nanocomposite for hydrogen production, US12319574B1*
6. *Hydrogen generation method using sodium borohydride, US12420268B1*
7. *g-C_3N_4@CoO/$MgAl_2O_4$ nanocomposite for hydrogen generation, US12420267B1*
8. *g-C3N4@CuO/MgAl2O4 nanocomposite synthesis for hydrogen generation, US12370534B1*
9. *Nanocomposite of graphitic C_3N_4, MnO_2, and $MgAl_2O_4$ for hydrogen generation, US12365586B1*
10. Method for generating hydrogen using Bi_2O_3@SiO_2 nanocomposite catalyst, US12286350B1

PUBLICATIONS

1. ***Mohamed N Goda**, Mohamed Khairy, Babiker Y Abdulkhair, Synthesis of SiO_2/g-C_3N_4/Bi_2SiO_5@ Bi_2O= Nanohybrid: A Bifunctional Catalyst for Hydrogen Generation and Antitumor Applications*, Inorganics 14(7) (2026) 171.

2. **Aml M Asran, Ahmed Hamad Alanazi, Rasha MK Mohamed, Sabrein H Mohamed, May M Alrashdi, Mohamed N Goda, Laila S Alqarni, Hossieny Ibrahim, Mohamed M El-Wekil, Superior oxidase-mimetic gadolinium vanadate nanoparticles for sensitive enzyme-free colorimetric detection of uric acid, Microchimica Acta 193 (2026) 465.**

3. **Tehmina Kousar, Yasmeen G Abou El-Reash, Basem E Keshta, Muhammad Aadil, Qurshia Choudhry, Mohamed N Goda, Sahar Abdalla, Hany Koheil, Muhammad Farooq Warsi, Farzana Mahmood, Khalid A Alzahrani, Eida S Al-Farraj, Ahmad Hosseini-Bandegharaei, Ahmed M Abodif, Bandgap engineering of Tb-doped CoNiFe2O4-rGO composites for photocatalytic dye degradation, iScience (2026).**

4. **Ramadan Ali, Nizar Sirag, Ahmad A Alharbi, Abdullah S Albalawi, Ghadeer O Aljohani, Haya M Alatawi, Sheikha B Alanazi, Farah M Alatawi, Rawan A Alanazi, Mohamed N Goda, Laila S Alqarni, Mohamed M El-Wekil, Oxygen-vacancy-rich Eu-MOF@ $CoNiFe_3O_4$ magnetic nanozyme for ultrasensitive dual-mode detection of uric acid, Microchemical Journal 227 (2026) 118678.**

5. **Mohamed N Goda, Laila S Alqarni, Mohamed Khairy, Yasmeen G Abou El-Reash, Mostafa E Salem, Tarek A Yousef, Abd El-Aziz A Said, Ghada Abd-Elmonsef Mahmoud, MOF-like and ZIF-like sacrificial precursors for the**

synthesis of SnO_2@ C Nanocatalysts: Hydrogen generation via NaBH4 hydrolysis and antimicrobial activity against human Yeasts, International Journal of Hydrogen Energy 242 (2026) 155620.

6. **Mohamed N Goda, Laila S Alqarni, Mostafa E Salem, Mohamed Abd El-Aal, From Spent Alkaline Batteries to Cu-Decorated Mn_3O_4 and MnO_2 Nanocatalysts for Wastewater Remediation and Green Hydrogen Generation, Surfaces and Interfaces 95 (2026) 109791.**

7. **Mohamed N Goda, Laila S Alqarni, Faisal K Algethami, Hossieny Ibrahim, Mohamed M El-Wekil, Ramadan Ali, Suliman A Almahmoud, Al-Montaser Bellah H Ali, Pharmacophore-targeted fluorescence sensing of ibrutinib *via* Michael addition-induced electron transfer on thiol-functionalized carbon dots, RSC advances 16 (2026) 30676-30686.**

8. **Huda F Hassan, Mohamed E Eissa, Maha Salih Hussein, Mohammed Bashar Al-Qazzan, Mohammed Al-Akeedi, Mohamed N Goda, Sadeq Jaafer Al-Tameemi, Haithem N Abed, Tareq K Ibraheem, Tarek A Yousef, Ahmed A Al-Karmalawy, Structure-Based Identification and Synthesis of Benzimidazole Azo–Schiff Base Derivatives as Recommended CK2 and PIM-1 Inhibitors, Drug Development Research 87 (2026) e70336.**

9. **Ramadan Ali, Nizar Sirag, Mohammed S Aldahhash, Riyadh S Alotibi, Turki A Aljuaid, Yazan T Mojmami, Fayez A Alanazi, Zyiad A Alyamani, Ziyad M Najmi, Reem M Alfridi, Mohamed N Goda, Laila S Alqarni, Mohamed M El-Wekil, A bioinspired nanozyme cascade sensor for fluorometric and smartphone-assisted colorimetric cholesterol analysis in serum and food**

samples, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 361 (2026) 128100.

10. Shazia Waseem, Ayesha Javaid, Shoomaila Latif, Ahmed BM Ibrahim, Murad A AlDamen, Monther A Khanfar, Mohamed N Goda, Muhammad Nadeem Akhtar, Insights into the Synergistic Removal of Rhodamine B Dye through Photocatalysis Over Zn (II)-based Complex: A Structural and Mechanistic Insights Dyes and Pigments 254 (2026) 113882.
11. Shakoor Ahmed Solangi, Jameel Ahmed Baig, Imam Bakhsh Solangi, Hassan Imran Afridi, Faisal K Algethami, Khalil Akhtar, Sajjad Hussain, Latif Ullah Khan, Şükrü Gökhan Elçi, Mohamed N Goda, Polypyrrole-Integrated Lanthanum Ferrite Electrochemical Platform for Sensitive Detection of Tinidazole, Catalysts 16 (2026) 490.
12. Faisal K Algethami, Mohamed N Goda, Laila S Alqarni, Hossieny Ibrahim, Mohamed M El-Wekil, Ramadan Ali, Al-Montaser Bellah H Ali, A tyrosinase activity biosensor exploiting dopaquinone-driven Fe3+ sequestration for simultaneous fluorometric and colorimetric detection in Cancer cell lysates, Microchemical Journal 226 (2026) 118484.
13. Basem E Keshta, Tesnim Dhiss, Jing Yu, Qiaoping Kong, Huma Javeria, Yasmeen G Abou El-Reash, Heba G El-Attar, Hany Koheil, Eida S Al-Farraj, Mohamed N Goda, Antonio Cid-Samamed, Eco-friendly synthesis of nZVI for water remediation: latest developments and environmental applications, RSC advances 16 (2026) 27453-27480.
14. Aya Farouk Farghal, Mohamed Nady Goda, Shiao-Wei Kuo, Mohamed MM Abd El-Wahab, Low-temperature methanol dehydrogenation over engineered flower-like NiMoO4: A pathway to clean hydrogen and anhydrous formaldehyde dual-production, International Journal of Hydrogen Energy 235 (2026) 155112.
15. Mohamed N Goda, Laila S Alqarni, Faisal K Algethami, Hossieny Ibrahim, Al-Montaser Bellah H Ali, Ramadan Ali, Mohamed M El-Wekil, Derivatization-

assisted dual-mode colorimetric and fluorometric detection of dopamine using 4-hexyl resorcinol, RSC advances 16 (2026) 25902-25911.

16. Ali Q Alorabi, Mohammad Mahboob Alam, Mohamed Abdelbaset, Syed Nazreen, **Mohamed N Goda**, Yasmeen G Abou El-Reash, Saif H Althagafi, Fatemah M Asiri, Ali Y Alzahrani, Ahmed A Elhenawy, Laila S Alqarni, Natural thymol-derived chemosensor for selective visual detection of Cu (II) and Fe (III) ions, Journal of Molecular Structure 1371 (2026) 146498.
17. **Mohamed N Goda**, Abd El-Aziz A Said, Metal-organic frameworks derived $CuMn_2O_4$@ C for the sustainable production of methyl ethyl ketone as a promising biofuel, Polyhedron 295 (2026) 118199.
18. Laila S Alqarni, **Mohamed N Goda**, Faisal K Algethami, Hossieny Ibrahim, Al-Montaser Bellah H Ali, Ramadan Ali, Mohamed M El-Wekil, Transition-metal vanadate/carbon nanotubes synergistic interface for sensitive and selective determination of hazardous antioxidant tert-butylhydroquinone, Microchemical Journal 226 (2026) 118309.
19. Wafaa S AboEl-Yazeed, Yasmeen G Abou El-Reash, Mahmoud AS Sakr, **Mohamed N Goda**, Hazem Abdelsalam, Nahed H Teleb, Enhanced toxic gas capture via dissociative chemisorption on Ni-rich CoNi single-layer hydroxides, Chemical Physics 609 (2026) 113251.
20. **Mohamed N Goda**, Babiker Y Abdulkhair, Mohamed Khairy, Laila S Alqarni, Tarig G Ibrahim, Emad M Masoud, Hassan MA Hassan, Abueliz Modwi, Tarek A Yousef, One-pot synthesis of $MoO_3/MgAl_2O_4$ as innovative catalysts for hydrogen production as a potential future fuel, Biomass and Bioenergy 208 (2026) 108760.
21. Ali O Alqarni, Rayed Ali A Alqahtani, Ashraf M Mahmoud, Yahya S Alqahtani, Bassam SM Al Kazman, Fatmah M Alshareef, **Mohamed N Goda**, Laila S Alqarni, Ramadan Ali, Al-Montaser Bellah H. Ali, Mohamed M El-Wekil, A novel NIR fluorescent probe based on p-mercaptophenylboronic acid-functionalized copper nanoclusters for capmatinib quantification, Analytical

Methods 18 (2026) 2981-2990.

22. **Mohamed N Goda, Laila S Alqarni, Faisal K Algethami, Hossieny Ibrahim, Al-Montaser Bellah H Ali, Ramadan Ali, Mohamed M El-Wekil, A ratiometric fluorescent probe based on samarium and nitrogen co-doped carbon dots and Ag/Au nanoclusters for sensitive lactoferrin detection in human tears, Microchemical Journal 225 (2026) 118040.**
23. **Mohamed Ali Ben Aissa, M Khairy, Abdullah Alsulami, Emad M Masoud, Nadeem Raza, Mohamed N Goda, A Modwi, Enhancing the Efficiency of Aquatic Remediation of Lead Ions Through the Utilization of a Co3O4@ CeO2@ g-C3N4 Nanosorbent, International Journal of Environmental Research 20 (2026) 108.**
24. **Mohamed N Goda, Babiker Y Abdulkhair, M Khairy, Laila S Alqarni, Maha D Alghamdi, Tarig G Ibrahim, Hany M Abd El-Lateef, Facile solid-state synthesis of CuO/MgAl2O4 catalysts for sustainable hydrogen generation, International Journal of Hydrogen Energy 222 (2026) 154257.**
25. **Mohamed N Goda, Laila S Alqarni, Faisal K Algethami, Hossieny Ibrahim, Mohamed M El-Wekil, Ramadan Ali, Suliman A Almahmoud, Al-Montaser Bellah H Ali, Peroxidase-mimetic carbon dots enable dual-mode resveratrol detection via competitive hydroxyl radical scavenging, Microchemical Journal 224 (2026) 117809.**
26. **Ahmed S Faihan, Abdullah Al-Dakhil, AY Osama'a, Muhammad Ashfaq, Ahmed S Al-Janabi, Reza Behjatmanesh-Ardakan, Muhammad Nawaz Tahir, H Ali Nashwan, Mohamed N Goda, Tarek A Yousef, Unexpected formation of a polymeric mercury (II) complex via ligand substitution: synthesis and structural study of [Hg (2-MBO) 2] n, Journal of Molecular Structure 1365 (2026) 146001.**
27. **Ramadan Ali, Naif K Alrayes, Faisal K Alkahlani, Abdullah F Alzhrani, Abdulmohsen S Alhawiti, Abdulrahman A Albalawi, Ahmed S Alahmari, Mohammed S Albariqi, Fahad K Al-aqeel, Mohamed N Goda, Laila S Alqarni,**

Mohamed M El-Wekil, Multimodal glutathione sensing using Cu-doped porous carbon nanozyme, Microchemical Journal 224 (2026) 117703.

28. Shahad Alhajri, Maha D Alghamdi, Hend Gadow, Reem Alghamdi, Ahmed Alzharani, Anas Alfarsi, Mohamed Nady Goda, Laila Alqarni, Design and evaluation of a MgO@MnO2@graphite hybrid nanostructure for enhanced acid corrosion protection of carbon steel, Anti-Corrosion Methods and Materials 12 (2026) 1-25.
29. Ahmed M El-Dessouki, Tarek A Yousef, Mashael A Alghamdi, Arwa Omar Al Khatib, Bassant M Barakat, Asmaa Ramadan, Nada A Ashour, Sahar K Ali, Mohamed N Goda, Ahmed A Al-Karmalawy, Modulation of AMPK/SIRT1 signaling by piribedil attenuates cyclophosphamide-induced nephrotoxicity via PI3K/Akt, MAPKs, and TLR4/NLRP3 pathways with regulation of KIM-1/NGAL, Naunyn-Schmiedeberg's Archives of Pharmacology 399 (2026) 10353-10372.
30. Anes A Al-Sharqi, Mohamed E Eissa, Dareen Alyousfi, Ahmed Eid Alharbi, Ibrahim M Ibrahim, Sozan M Abdelkhalig, Faisal Miqad K Albaqami, Ahmed M Eldesoky, Ahmad A Sherbini, Tarek A Yousef, Mohamed N Goda, Ahmed Ghareeb, Multifunctional Se–Cu bimetallic nanoparticles from marine Bacillus licheniformis: targeting oxidative stress, inflammation, and microbial biofilms, RSC advances 16 (2026) 7132-7148.
31. Abd El-Aziz A Said, Mohamed N Goda, Esraa Magdy, Mohamed Abd El-Aal, Enhancing FeWO4 Catalytic Performance for Methanol Dehydration to Dimethyl Ether: The Role of Cu^{2+} and Ni^{2+} Substitution, Topics in Catalysis 69 (2026) 470-486.
32. Ali O Alqarni, Rayed Ali A Alqahtani, Ashraf M Mahmoud, Meshal H Almabadi, Fatmah M Alshareef, Mohamed N Goda, Ramadan Ali, Mohamed M El-Wekil, Dual-modal colorimetric and fluorescent sensing of antineoplastic drug fludarabine via bimetallic-doped nitrogen carbon dots nanozyme, Journal

of Cluster Science 37 (2026) 6.

33. Laila S Alqarni, Rachid EL Kaim Billah, Jari S Algethami, Faisal K Algethami, **Mohamed N Goda**, AA Ortiz Verdin, Jorge Noé Díaz de León, Lahoucine Bahsis, Eder C Lima, Eduardo Alberto López-Maldonado, Enhanced effectiveness of crosslinked chitosan–Polyacrylate@ZrO_2 bio-nanocomposite for superior Lead and copper removal: In-depth mechanistic understanding and reusable performance, International Journal of Biological Macromolecules 344 (2026) 150487.
34. Laila S Alqarni, **Mohamed N Goda**, Fehaid Mohammed Alsubaie, Alaa M Younis, Suzan Makawi, Mukhtar Ismail, A Modwi, Selective Adsorption of Lead (Pb^{2+}) Ions from Contaminated Water via Y2O3 Modified Chitosan Adsorbent, Journal of Polymers and the Environment 34 (2026) 30.
35. Mohammed EA Al-Doori, Tarek A Yousef, Ahmed SM Al-Janabi, Ahmed S Faihan, Necmi Dege, Mustafa A Alheety, Shahad I Attwan, **Mohamed N Goda**, Spectroscopic characterization and effective studies of X-anion type in the H2 storage of [HgX2 (Mnz) 2] and [HgSO4 (Mnz) 2]; Crystal structure of [HgCl2 (Mnz) 2], Journal of Physics and Chemistry of Solids 211 (2026) 113457.
36. **Mohamed N Goda**, Laila S Alqarni, KS Al-Namshah, Hossieny Ibrahim, Mohamed M El-Wekil, Ramadan Ali, Al-Montaser Bellah H Ali, Near-infrared carbon dots enable ultra-sensitive fluorometric detection of belzutifan: a novel approach for real-time therapeutic drug monitoring in cancer treatment, Analytical Methods 17 (2025) 9887-9897.
37. **Mohamed Nady Goda**, Aya Farouk Farghal, Mohamed MM Abd El-Wahab, Abd El-Aziz Ahmed Said, Synthesis, characterization and catalytic activity of a novel zirconium molybdate nanocatalyst for methanol dehydrogenation at comparative low temperature, Journal of Molecular Structure 1346 (2025) 143213.
38. **Mohamed N Goda**, Yasmeen G Abou Elreash, Hossieny Ibrahim, Mohamed M El-Wekil, Al-Montaser Bellah H Ali, Fe/N-CD nanozyme for dual-mode

fluorescence and colorimetric detection of carbendazim, Journal of Cluster Science 36 (2025) 1-16.

39. **Laila S Alqarni, Mohamed N Goda, Abuzar Albadri, Kamal K Taha, Abdulaziz A Alharbi, Mukhtar Ismail, A Modwi, Improved photodegradation of indigo carmine dye (IC) via crommium-TiO2@ g-C3N4 heterojunctions, Diamond and Related Materials 160 (2025) 113055.**
40. **Mohamed N Goda, Laila S Alqarni, Hossieny Ibrahim, Mohamed M El-Wekil, Yousef A Bin Jardan, Al-Montaser Bellah H Ali, Dual-Mode Histamine Detection Using Nitrogen and Iron Co-Doped Carbon Dots: A Novel Nanozyme-Based Sensing Platform for Food Safety Applications, Journal of Cluster Science 36 (2025) 220.**
41. **Yousef A Bin Jardan, Mohamed M El-Wekil, Aya M Mostafa, James Barker, Mohamed N Goda, Al-Montaser Bellah H Ali, Dual-Emission Rhodamine–Carbon Dot Sensor for Rapid Monensin Residue Detection in Poultry, Food Analytical Method 18 (2025) 2608-2623.**
42. **Mostafa E Salem, Mohamed A Ragheb, Abbas H Abdullaha, Mohamed Nady Goda, Ismail A Abdelhamid, Ahmed HM Elwahy, Synthesis and antibacterial activity study of novel hybrid molecules based on mono-and bis-triazolothiadiazines incorporating 2-phenoxy-N-arylacetamide unit, Journal of Molecular Structure 1350 (2026) 144064.**
43. **Mohamed I. Said , Mohamed N. Goda, Potentially less hazardous hydrogen production: A green catalytic approach using copper aspartate MOF for $NaBH_4$ hydrolysis, International Journal of Hydrogen EnergyVolume 179, 17 (2025) 151669**
44. **Mohamed N Goda , Laila S Alqarni , Hossieny Ibrahim , Al-Montaser Bellah**

H Ali, Mohamed M El-Wekil, **Dual-mode colorimetric and fluorometric detection of D-penicillamine via inhibition of peroxidase-mimetic activity of bimetallic N-doped carbon dots,** Spectrochim Acta A Mol Biomol Spectrosc 2025 Dec 15:343:126605.

45. ***Mohamed N. Goda , Laila S. Alqarni , Hossieny Ibrahim , Mohamed M. El-Wekil , Al-Montaser Bellah H. Ali , Ratiometric fluorescence sensor for sensitive quantification of salinomycin residues in edible poultry tissues using R/CDs@Rh6G: A novel food safety approach, Microchemical Journal 217, (2025) 114876.***

46. **Mohamed N. Goda , Laila S. Alqarni , Hossieny Ibrahim , Mohamed M. El-Wekil , Al-Montaser Bellah H. Ali , Dithioerythritol-capped silver/gold nanoclusters for determination of ciprofloxacin, norfloxacin, and enrofloxacin in food and urine samples, RSC Advances 15 (2025) 23364-23373.**

47. **Mohamed N. Goda , Laila S. Alqarni , Hossieny Ibrahim , Mohamed M. El-Wekil , Al-Montaser Bellah H. Ali , Low-energy room-temperature carbon dots for targeted sensing of MET inhibitor capmatinib, RSC Advances 15 (2025) 28375-28383.**

48. **Mohamed N. Goda , Laila S. Alqarni , Hossieny Ibrahim , Mohamed M. El-Wekil , Al-Montaser Bellah H. Ali , Selective detection of tyrosine kinase inhibitor erdafitinib using nitrogen-doped carbon dots synthesized at room temperature,** Analytical Methods **17 (2025) 5929-5938**

49. **Laila S Alqarni, Mohamed N Goda, Abuzar Albadri, Mukhtar Ismail, Kamal K Taha, A Modwi, Photocatalytic decomposition of organic dyes via κ-**

Al_2O_3@Cr_2O_3 loaded on g-C_3N_4 nanostructures, Journal of Materials Science: Materials in Electronics 36 (2025) 1625.

50. Walaa A Elhamdy, Abd El-Aziz A Said, Mohamed N Goda, Kamal MS Khalil, Promotional effect of CeO_2 and Fe_2O_3 species on mesoporous silica as efficient catalysts for the vapor-phase dehydration of iso-butyl alcohol to isobutylene, Applied Catalysis A: General, 702, (2025) 120352

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52. Mohamed Khairy, Babiker Y Abdulkhair, Mohamed N Goda, Laila S Alqarni, Tarig G Ibrahim, Mostafa Y Nassar, Facile synthesis of nanocrystalline Bi_2O_3/SiO_2 catalysts for hydrogen generation via $NaBH_4$ dehydrogenation, International Journal of Hydrogen Energy 147, (2025) 149991

53. Mohamed Nady Goda, Aya Farouk Farghal, Mohamed MM Abd El-Wahab, Abd El-Aziz Ahmed Said, Synthesis, characterization and catalytic activity of a novel zirconium molybdate nanocatalyst for methanol dehydrogenation at comparative low temperature, Journal of Molecular Structure 1346 (2025) 143213.

54. Mohamed N Goda, Laila S Alqarni, Mohamed Khairy, Babiker Y Abdulkhair, Ghada Abd-Elmonsef Mahmoud, Metal–Organic Framework (MOF)-Derived Mn_2O_3@ C for Sustainable Hydrogen Generation and Antibacterial Efficacy

Against Human Pathogenic Bacteria, Applied Organometallic Chemistry 39 (2025) e70326

55. Mohamed N Goda, Laila S Alqarni, Mohamed Khairy, Mortaga M Abou-Krisha, Babiker Y Abdulkhair, Ehab A Abdelrahman, Ghada Abd-Elmonsef Mahmoud, Hydrothermal Synthesis of Microporous $CuWO_4$ for Hydrogen Generation and Antibacterial Activity, Journal of Inorganic and Organometallic Polymers and Materials (2025)

56. Abd El-Aziz A Said, Mohamed Abd El-Aal, Asmaa Mohamed, Mohamed N Goda, Enhanced Catalytic Performance of Egyptian Red Clay Modified with Zirconia Nanoparticles for Methanol Dehydration to Dimethyl Ether, Catalysis Letters 155 (2025) 140.

57. Abd El-Aziz Ahmed Said, Mohamed MM Abd El-Wahab, Aya Farouk Farghal, Mohamed Nady Goda, Potential application of zirconium molybdate as a novel catalyst for the selective dehydrogenation of methanol to anhydrous formaldehyde, Scientific Reports 15 (2025) 15384

58. Mortaga M Abou-Krisha, Abdulrahman G Alhamzani, Ehab A Abdelrahman, Mohamed N Goda, Mohamed E Eissa, Mohamed Abd-Elsabour, A High Performance Sensor Based on Graphene Oxide Decorated with β-Cyclodextrin Metal-Organic Framework and Biosynthesized Ag-MnO_2 Nanocomposite for Voltammetric Determination of Caffeine ,Journal of Inorganic and Organometallic Polymers and Materials (2025).

59. Laila S Alqarni, Mohamed N Goda, Mohammed Qasem Alfaifi, Musaad Aleid,

Amani H Ahmed, Abdullah Alsulami, Abueliz Modwi, Congo Red eradication via efficient La-NiO-g-C_3N_4 nanocomposite from contaminated water, Journal of Hazardeous Materials Advances 18 (2025) 100751

60. Abd El-Aziz Ahmed Said, Mohamed Abd El-Aal, Mohamed MM Abd El-Wahab, Nadia O El-Gamal, Mohamed Nady Goda, Sugarcane Bagasse Fly Ash Modified with Bentonite as Low-Cost Adsorbents for Removal of Methylene Blue and Congo Red Dyes from Aqueous Solution, ChemistrySelect 10 (2025) e03235

61. Mohamed Abd-Elsabour, Mortaga M Abou-Krisha, Abdulrahman G Alhamzani, Mohamed N Goda, Ehab A Abdelrahman, Synergistic Effect of Biosynthesized NiO Nanoparticles and Functionalized Dialdehyde γ-cyclodextrin Schiff Base on the Voltammetric Determination of Bisphenol A, Journal of The Electrochemical Society 172 (2025) 067506.

62. Aya Farouk Farghal, Abd El-Aziz Ahmed Said, Mohamed MM Abd El-Wahab, Mohamed Nady Goda, Synthesis of a Novel Highly Active $NiMoO_4$ Nanocatalyst for the Sustainable Production of Anhydrous Formaldehyde from the Non-oxidative Dehydrogenation of Methanol at Relatively Low Temperature. Catal Lett 155 (2025) 48.

63. Mohamed Abd El-Aal Abd El-Aziz A. Said, Mohamed N. Goda, Asmaa Mohamed, The catalytic performance of γ-Al_2O_3/red clay as a highly active, selective, and stable catalyst for methanol dehydration to dimethyl ether at competitive low reaction temperature, Materials Chemistry and Physics 324, (2024) 129674

64. A.G. Abd-Elrahim, Doo-Man Chun, E.M.M. Ibrahim, Faisal K. Algethami, Mohamed Nady Goda, Manar A. Ali, Sonochemical synthesis of mesoporous $Zn_yCd_{1-y}S$ quantum dots: Composition-dependent optical, electrical, dielectric, and hydrogen-generation characteristics, Journal of Physics and Chemistry of Solids (2024) 112414.

65. Mohamed Abd-Elsabour, Mortaga M Abou-Krisha, Fatehy M Abdel-Haleem, Mohamed N Goda, Mohamed S Mohy-Eldin, Electrochemical Nanomolar Determiantion of the Anticancer Drug 5-Fluorouracil Using Chitosan Curcumin Schiff Base-Decorated NiO Nanorods Synthesized with Green Method, Journal of The Electrochemical Society 171 (8), (2024) 087520.

66. Abd El-Aziz A. Said, Mohamed N. Goda, Mohamed Abd El-Wahab, Nadia O. El-Gamal, Mohamed Abd El-Aal, The catalytic performance of γ-Al_2O_3/red clay as a highly active, selective, and stable catalyst for methanol dehydration to dimethyl ether at competitive low reaction temperature, Materials Chemistry and Physics 324 (2024) 129674.

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