



Assiut University
Faculty of Science



جامعة أسيوط
كلية العلوم

CURRICULUM VITAE

Personal Information

Name: Mohamed Nady Abd El-Hameed Ibrahim
Date of birth 26/11/1985
Place of birth Assiut, Egypt
Nationality Egyptian
Mailing address Faculty of Science, Assiut University,
Assiut 71516, Egypt
Degree PhD in Physical Chemistry from Faculty of
Science, Assiut University.



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Marital status Married (Two children)

Current Job Associate Professor of Physical Chemistry
at Faculty of Science, Assiut University

Education

June 2007 B.Sc. in Chemistry (Distinction with honor), Faculty of Science,
Assiut University, Assiut, Egypt.



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January 2013 M.Sc. in Physical Chemistry, Faculty of Science, Assiut University, Assiut, Egypt.

March 2017 Ph.D. in Physical Chemistry (Catalysis and Surface Chemistry), Faculty of Science, Assiut University, Assiut, Egypt.

Job History

November 15, 2007 Demonstrator, Chemistry Department, Faculty of Science, Assiut University

February 25, 2013 Assistant Lecturer, Chemistry Department, Faculty of Science, Assiut University

April 26, 2017 Lecturer, Chemistry Department, Faculty of Science, Assiut University

July 31, 2022 Associate Professor, Chemistry Department, Faculty of Science, Assiut University

Research interests

- Preparation of nanomaterial-based catalysts.
- Preparation of metal-organic framework (MOF) and their adsorptive and catalytic applications.
- Preparation of micro-scaled and nano-scaled materials based on calcination, hydrothermal and ultrasound assisted techniques.
- 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.



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Languages (Spoken and Written)

- Arabic (Native) - English (Fluent) - German (Good)

Complementary skills & competencies

- Good user of computers and several important software's.
- Participant in courses for business writing and basic business skills acquisition.

List of Publications

1. Abd El-Aziz A. Said, A. A. Abu-Sehly, H. Ahmed, A. Z. Mahmoud, **Mohamed N. Goda**, Adsorptive Remediation of Hazardous Crystal Violet Dye using $Ni_{1-x}Zn_xFe_2O_4$ Magnetic Nanocomposites, ChemistrySelect Accepted Manuscript (2023).
2. Abd El-Aziz A. Said, A. A. Abu-Sehly, H. Ahmed, A. Z. Mahmoud, **Mohamed N. Goda**, Influence of ultrasonic radiation on the structural, magnetic, electrical, and catalytic properties of NiFe₂O₄ nanoparticles, Journal of Materials Science: Materials in Electronics 33 (2022) 16805–16817.
3. Mohamed Abd El-Aal , Abd El-Aziz A. Said, Mohamed H. Abdallah, **Mohamed N. Goda**, Modified natural kaolin clay as an active, selective, and stable catalyst for methanol dehydration to dimethyl ether, Scientific Reports (2022) Accepted Manuscript.
4. **Mohamed N. Goda**, Abd El-Aziz A. Said, Mohamed Abd El-Aal, Mineral acid-activated sugarcane bagasse ash as solid acid catalyst for the liquid phase esterification of acetic acid with n-amyl, benzyl, and n-butyl alcohols, Journal of Environmental Chemical Engineering 10 (2022) 107355.
5. Abd El-Aziz A. Said, **Mohamed N. Goda**, Aya. A. Shaban, The Catalytic Performance of Ultrasonically Prepared AlPO₄ Nanocatalysts for the Selective Production of Dimethyl Ether from Methanol, Catalysis Letters 152 (2022) 821-837.



6. Abd El-Aziz A. Said, Mohamed M. Abd El-Wahab, Nadia O. El-Gamal and **Mohamed N. Goda**, A pronounce approach on the catalytic performance of mesoporous natural silica towards esterification of acetic acid with iso-amyl, benzyl and cinnamyl alcohols, Journal of the Chinese Chemical Society 69 (2022) 257-268.
7. Kamal M .S. Khalil, Walaa A. Elhamdy, Mohamed N. Goda, Abd El-Aziz A. Said, Biomass derived P-containing activated carbon as a novel green catalyst/support for methanol conversion to dimethyl ether alternative fuel, Journal of Environmental Chemical Engineering 9 (2021) 106572.
8. **Mohamed N. Goda**, Abd El-Aziz A. Said, Hani Nasser Abdelhamid, Highly selective dehydration of methanol over metal-organic frameworks (MOFs)-derived ZnO@Carbon, Journal of Environmental Chemical Engineering 9 (2021) 106336.
9. Abd El-Aziz A. Said, **Mohamed N. Goda**, Superior Competitive Adsorption Capacity of Natural Bentonite in the Efficient Removal of Basic Dyes from Aqueous Solutions, ChemistrySelect 6 (2021) 2790-2803.
10. Hani N. Abd El-Hamid, **Mohamed N. Goda**, Abd El-Aziz A. Said, Selective dehydrogenation of isopropanol on carbonized metal–organic frameworks, Nano-Structures & Nano-Objects 24 (2020) 100605.
11. **Mohamed N. Goda**, Abd El-Aziz A. Said, Mohamed Abd El-Aal, Synthesis, The catalytic performance of ultrasonically prepared $Cu_xCo_{3-x}O_4$ towards CO oxidation at relatively low temperature, Molecular Catalysis 494 (2020) 111121.
12. Abd El-Aziz A. Said, Aref. M. A. Aly, **Mohamed N. Goda**, Mohamed Abd El-Aal, Adsorptive remediation of Congo red in aqueous solutions using acid pretreated sugarcane bagasse, Journal of Polymer and the Environment 28 (2020) 1129-1137.



13. Abd El-Aziz A. Said, **Mohamed N. Goda**, Mohamed A. Kassem, Promotional Effect of B_2O_3 , WO_3 and ZrO_2 on the Structural, Textural and Catalytic Properties of $FePO_4$ Catalyst Towards the Selective Dehydration of Methanol into Dimethyl Ether, *Catalysis Letters* 150 (2020) 1714-1728.
14. **Mohamed N. Goda**, Hani Nasser Abdelhamid, Abd El-Aziz A. Said, Zirconium Oxide Sulfate-Carbon ($ZrOSO_4@C$) Derived from Carbonized UiO-66 for Selective Production of Dimethyl Ether, *ACS Applied Materials & Interfaces* 12 (2020) 646-653.
15. Abd El-Aziz A. Said, **Mohamed N. Goda**, Green synthesis of bio-ethyl acetate over Egyptian acidic natural red clay as a highly active, selective and eco-friendly catalyst, *Chinese Journal of Chemical Society*, 67 (2020) 567-575.
16. Abd El-Aziz A. Said, Mohamed M. Abd El-Wahab, **Mohamed N. Goda**, Nadia O. El-Gamal, Green synthesis of n-butyl acetate in the liquid phase using natural silica as a novel, highly efficient and stable catalyst, *Egyptian Sugar Journal* 13 (2019) 85-103.
17. Abd El-Aziz A. Said, **Mohamed N. Goda**, Synthesis, Characterization and Catalytic Activity of Nanocrystalline $Ce_2(MoO_4)_3/SiO_2$ as a Novel Catalyst for the Selective Production of Anhydrous Formaldehyde from Methanol, *Catalysis Letters* 149 (2019) 419-430.
18. Abd El-Aziz A. Said, Mohamed T. Heikal, **Mohamed N. Goda**, Characterization and catalytic performance of Basaltic dust as an efficient catalyst towards the liquid-phase esterification of acetic acid with n-butanol. *Chinese Journal of Chemical Society* 66 (2019) 725-733.
19. Abd El-Aziz A. Said, **Mohamed N. Goda**, Superior catalytic performance of $CaMoO_4$ catalyst in direct dehydrogenation of methanol into anhydrous formaldehyde, *Chemical Physics Letters* 703 (2018) 44-51.



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20. Abd El-Aziz A. Said, Aref M. A. Aly, **Mohamed N. Goda**, Mohamed Abd El-Aal, Mohamed Abdelazim, Modified sugarcane bagasse with tartaric acid for removal of diazonium blue from aqueous solutions. *Journal of polymer and the Environment* 26 (2018) 2424-2433.
21. Abd El-Aziz A.Said, Mohamed M. Abd El-Wahab, and **Mohamed N. Goda**, Selective synthesis of acetone from isopropyl alcohol over active and stable CuO–NiO nanocomposites at relatively low-temperature *Egyptian Journal of Basic and Applied Sciences*, 3 (2016) 357-365.
22. Abd El-Aziz A.Said, Mohamed M. Abd El-Wahab, and **Mohamed N. Goda**, Synthesis and characterization of pure and (Ce, Zr, Ag) doped mesoporous CuO-Fe₂O₃ as highly efficient and stable nanocatalysts for CO oxidation at low temperature, *Applied Surface Science* 390 (2016) 649-665.
23. Abd El-Aziz A. Said, Mohamed M. Abd El-Wahab, S. A. Soliman and **Mohamed N. Goda**, Synthesis and characterization of mesoporous Fe–Co mixed oxide nanocatalysts for low temperature CO oxidation, *Process Safety and Environmental Protection* 102 (2016) 370-384.
24. Abd El-Aziz A.Said, Mohamed M. Abd El-Wahab, Soliman A. Soliman and **Mohamed N. Goda**, Synthesis and structural characterization of nano CuO-NiO mixed oxides. *Nanoscience and Nanoengineering* 2 (1) (2014) 17-28.
25. Abd El-Aziz A. Said, Aref A. M. Aly, Mohamed M. Abd El-Wahab, Aly. A. Abd El-Hafez and **Mohamed N. Goda**, "A new approach on the catalytic synthesis of n-butyl acetate over Egyptian natural clay", *The Seventh Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT7)*, 1-6, June 2014, short communication.



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26. Abd El-Aziz A. Said, Aref A. M. Aly, Mohamed M. Abd El-Wahab, Soliman A. Soliman, Aly. A. Abd El-Hafez, V. Helmey and **Mohamed N. Goda**, Application of modified bagasse as a biosorbent for reactive dyes removal from industrial wastewater. *Journal of Water Resource and Protection* 5 (2013) 10-17.
27. Abd El-Aziz A. Said, Aref A. M. Aly, Mohamed M. Abd El-Wahab, Soliman A. Soliman, Aly. A. Abd El-Hafez, V. Helmey and **Mohamed N. Goda**, An efficient biosorption of direct dyes from industrial wastewaters using pretreated sugarcane bagasse. *Energy and Environmental Engineering* 1(1) (2013) 10-16.
28. Abd El-Aziz A. Said, Aref A. M. Aly, Mohamed M. Abd El-Wahab, Soliman A. Soliman, Aly. A. Abd El-Hafez, V. Helmey and **Mohamed N. Goda**, Potential application of propionic acid modified sugarcane bagasse for removal of basic and acid dyes from industrial wastewater, *Resources and Environment* 2(3) (2012) 93-99.
29. Aref A. M. Aly, Abd El-Aziz A. Said, Ali A. Abd El-Hafez, **Mohamed N. Goda**, Victor Helmey, Acid pretreated bagasse as a suitable biosorbent for direct red 81 removals, *The 2010 International conference on environmental engineering and applications (ICEEA 2010, Singapore), proceedings* (2010) 151- 153.



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List of Conferences and Workshops

1. Training in Assiut Cement Company (CEMEX) 2006-2007.
2. Training in Technical Center for Scientific equipment and training in "Analysis using Analytical Chromatographic techniques, GC and HPLC" 4-5th January, 2011.
3. The 3rd Conference for Young Researchers, Basic Science & Technology, Assiut, 19-20th April, 2011.
4. The 6th International Conference "New role for the World Sugar Economy in a Changed Political and Economic Environment" Isis Pyramisa Hotel, Aswan, Egypt, 10-13th November, 2012.
5. The 8th International Conference "New role for the World Sugar Economy in a Changed Political and Economic Environment" Isis Pyramisa Hotel, Aswan, Egypt, 7-10th November, 2015.
6. The 9th International Conference "Sugar and Integrated Industries" Steigenberg Nile palace Hotel, Luxor, Egypt, 18-21th November, 2018.



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List of Shared Projects

1. Using Metakaolin as a Pozzolanic Material for Improving Cement in High Strength Concrete and Sulfate Resistance (funded by CEMEX Company, Egypt).
2. Utilization of black shales as an alternative fuel in cement industry (funded by CEMEX Company, Egypt) (Finished).
3. Development of marketable oil and organic waste absorbing products from indigenous sugar cane waste (Bagasse) (funded by STDF, Egypt, Project ID: 479) (Finished).
4. Utilization of Natural Egyptian Clays Instead of Sulfuric Acid in Manufacturing of Esters (funded by STDF, Egypt, Project ID: 3009) (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).



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List of Supervisions

1. Hiam Ahmed Hassan, PhD Student

Thesis title: Synthesis, Characterization, and Catalytic Activity of Nanocrystalline Nickel and Zinc Ferrites as Efficient and Stable Catalysts.

2. Nadia Mohamed A. Omar, PhD Student

Thesis title: Application of developed sugarcane bagasse fly ash catalyst for promoting the dehydration-dehydrogenation reaction and removal of dyes from industrial wastewater.

3. Nadia M. A. Omar, M.Sc. Student

Thesis title: Catalytic performance of natural silica for synthesis of some esters in liquid phase.

4. Aya Ali Shaban, M.Sc. Student

Thesis title: Conversion of methanol into dimethyl ether over some metal phosphate nanocatalysts at relatively low reaction temperature.

5. Esraa Magdy Abd El-Moniem, M.Sc. Student

Thesis title: Synthesis, characterization, and catalytic performance of some metal tungstate nanocatalysts.

6. Aya Farouk Farghal, M.Sc. Student

Thesis title: Selective conversion of methyl alcohol into formaldehyde over pure and modified nickel and zirconium molybdate nanocatalysts.



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Reference:

- 1- Prof. Abd El-Aziz A. Said, Prof. of Catalysis and Nanomaterials.
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- 2- Prof. Mohamed M. M. Abd El-Wahab, Prof. of Catalysis and Nanomaterials.
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