CURRICULAM VITAE

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Researcher and Lecturer

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Personal Information:

Date of Birth	: February 20, 1984
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Nationality	: Egyptian
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Research Experience and Education:

Sep. 2020 – until date	Researcher and Lecturer, Mining and Metallurgy Engineering Department, Tabbin Institute for Metallurgical Studies, (TIMS). Tabbin, Cairo, Egypt.
Dec. 2017 – Jun. 2020	Assistant Lecturer, Mining and Metallurgical Engineering Department, Tabbin Institute for Metallurgical Studies, (TIMS). Tabbin, Cairo, Egypt.
Aug. 2010 – May. 2017	Research Assistant, Chemical Engineering Department, Tabbin Institute for Metallurgical Studies, (TIMS). Tabbin, Cairo, Egypt.

Aug. 2010 – Dec. 2010	Inorganic training course, Japan International Cooperation Agency, JICA. Technical Support for Inorganic materials and Metals, Under the International Cooperation Program of the Government of Japan.
Sep 2008– Oct, 2009	Chemist, Alpha Scan center, Cairo, Egypt.
Sep 2006– Oct, 2007	Central lab Ain Shams University, Chemist, Cairo, Egypt.

Academic Record:

Degree	*Subject taken*	*Board/College/University*	*Date of Approval*	*Marks*
B. Sc.	Chemistry	Faculty of Science, Ain Shams University, Egypt.	Jun 2005	75.00%
M. Sc.	Physical, Analytical and Inorganic Chemistry	Faculty of Science, Ain Shams University, Egypt.	Sep 2016	Awarded
Ph.D	Chemistry (Material Chemistry-Nano Technology-Energy storage applications)	Faculty of Science, Ain Shams University, Egypt.	July 2020	Awarded

- ***Title of the Master Thesis:*** "Corrosion behavior of Galvanized steel in aqueous solutions "
- ***Title of the Doctoral Thesis:*** "Synthesis of Nanostructures of some Transition Metal compounds for Energy Storage Applications"

Research and Technical Skills:

- Synthesis of metal oxides and chalcogenides nanostructures and their carbon composites using different synthetic methods.
- Applications of metal oxide nanostructures in Energy related field such as Supercapacitors.
- Deposition of metals, metal oxides, ceramic materials and carbonaceous materials using electrochemical, electroless and electrophoretic deposition techniques.
- Electrochemical characterization techniques such as, cyclic voltammetry, Chronoampero-potentiometry, Chronoampero-amperometry, and Electrochemical Impedance spectroscopy (EIS).
- The structural characterization by TEM, EDS, SEM, XPS, XRD, FTIR, Raman, and BET.

Current Research Interest:

- Synthesis and application of Mono and binary metal oxides nanostructures in Energy related systems.
- Synthesis and application of metal chalcogenides nanostructures in in Energy related systems such as supercapacitors.

Teaching Experience:

- Electrochemistry, Energy storage systems and Corrosion science periods (tutorial & laboratory) for postgraduates during the Master program at Chemical Engineering Department, Tabbin Institute for Metallurgical Studies, (TIMS), Tabbin, Helwan, Egypt**.**

Language Skill at Technical level: English (excellent), Arabic (mother tongue).

List of Publications

https://scholar.google.co.kr/citations?user=XNbZ1usAAAAJ&hl=en

https://www.scopus.com/authid/detail.uri?authorId=55912795700

1. **S. Y. Attia**, Y. F. Barakat, H. H. Hassan, S. G. Mohamed, A single-step synthesis and direct growth of microspheres containing the nanoflakes-like structure of $Zn_{0.76}Co_{0.24}S$ as a high-performance electrode for supercapacitors, ***Journal of Energy Storage***, 2020, 29, 101349
2. M. M Morad. **S. Y. Attia**, S. G. Mohamed, M. M Mohran. R.M AbouShahba, Preparation and Electrochemical behavior of the Activated carbon from Pomegranate peels as Energy storage materials, ***Al-Azhar Bulletin*** of science 31(1-A), 1-9, 2020.
3. F. Taher, M NS, D Aman **S. Y. Attia**, S. G. Mohamed, , Synthesis and Evaluation of Materials for High performance Supercapacitors, ***Interceram-International ceramic Review*** 69, 30-37, 2020.

4. S. K. Abdel-Aal, **S. Y. Attia**, S. G. Mohamed, Facile Synthesis of Mn3O4-rGO Nanocomposite As an Efficient Electrode Material for Application in Supercapacitors, ***Journal of Electronic Materials*** 2019, 48 (8), 4977-4986

5. **S. Y. Attia**, S. G. Mohamed, Y. F. Barakat, H. H. Hassan, W. Al Zoubi, Hydrothermal Synthesis of α-MnS Nanoflakes@Nitrogen and Sulfur Co-doped rGO for High-Performance Hybrid Supercapacitor, ***ChemistrySelect*** 2018, 3, 6061

6. S. G. Mohamed, **S. Y. Attia**, H. H. Hassan, Spinel-structured $FeCo_2O_4$ Mesoporous Nanosheets as Efficient Electrode for Supercapacitor Applications, ***Microporous and Mesoporous Materials***, 2017, 251, 26.

7. S. G. Mohamed, **S. Y. Attia**, N. K. Allam, One-Step, Calcination-free Synthesis of Zinc Cobaltite Nanospheres for High-Performance Supercapacitors, ***Materials Today Energy***, 2017, 4, 97.

Awards

The best Ph D Poster Award, Department of Chemistry, The First Sceintific Reaserch Symposium of Faculty of Science- Ain Shams University, Dec 27th , 2018.

List of Awarded Funded Projects

1. Young Researchers Grant (STDF-YRG), STDF-Youth, Fabrication of Nanostructured-Transition Metal Sulfides for High-Performance Supercapacitors, ID 33480, 2019.
2. Reintegration Grants (STDF-RG), STDF-Youth Project, Synthesis of Selenium, Metal Selenides and their Carbon-composites: Toward High-Performance Cathode Materials for Li-Se Battery as a Practical Candidate for Energy-Storage, ID 35971, 2020.

References:

1. **Professor Hamdy H. Hassan**
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3 Professor Mohammed Mohammed Rashad,
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