**Name:** Aya Elshafay Saad

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**Languages:**

* **Arabic:** Mother tongue
* **English: Very Good**

**Specialization:** Chemistry and zoology &Material Science & Nanotechnology

**Affiliation:** Faculty of Postgraduate Studies for Advanced Sciences (PSAS), Beni-Suef University.

**Education:**

* Per-master in Material Science & Nanotechnology, Faculty of Postgraduate Studies for Advanced Sciences (PSAS), Beni-Suef University with a **very good** grade (2018)
* Postgraduate diploma in Material Science & Nanotechnology, Faculty of Postgraduate Studies for Advanced Sciences (PSAS), Beni-Suef University with a **very good** grade and **Excellent** in the project under the title: Facile Synthesis of Osage Orange TiO2 from Titanium Nanotubes (2017)
* B. SC of Science Chemistry and Zoology Assuit University “2014”

**Interests:**

* Production of Nanomaterials from different precursors,nature-inspired and biomimicry by physical and chemical methods
* Characterization of Nanomaterials by different tools of analysis.
* Photocatalysis

**Projects:**

* Morphology transformation from Titanate nanotubes to TiO2 microspheres.   
  (2 Publication )   
    
  preparation of different nanomaterials from natural resources for different applications (1 Publication+ 2 Publishing in progress(

**Publication:**

**1) Innovative templates for the synthesis of ZnO nanoparticles with versatile morphologies**

*(DOI: 10.1007/s10971-021-05546-6)*

Lab work, Writing – review & editing, Writing – original draft, Visualization Methodology, Investigation, Formal analysis, Data curation, and Conceptualization.

**2) Acceleration of ammonium phosphate hydrolysis using TiO2 microspheres as a catalyst for hydrogen production**

*(DOI: 10.1039/D0NA00204F)*

Lab work, Visualization Methodology, Investigation, Formal analysis, Data curation, and Conceptualization.  
  
**3) Morphology transformation from Titanate nanotubes to TiO2 microspheres**

*(DOI: 10.1016/J. mss.2017.09.030)*

Lab work, Writing – review & editing, Writing – original draft, Visualization Methodology, Investigation, Formal analysis, Data curation, and Conceptualization

**Teaching experience:**

* Make presentations in PSAS.
* I led a group of students in the laboratory, and we worked on research number 2 mentioned above.

**Conferences, Workshops, and Training Courses:**

* Attending the 4th International conference of advanced sciences (ICAS4), Hurghada, 7-10 Nov 2017
* Training program at a molecular biology research center at Assuit University.
* Training program at the unit of the electron microscope at Assuit university.
* Training program at the unit of clinical pharmacy at (south cancer institute).
* Training Course on Plagiarism and Scientific Writing, 26-27 Sep. 2018, held at Scientific Research Developing Unit, Beni-Suef University.
* Attending the workshop on (Recent advances in renewable energy technologies), held at PSAS, Beni-Suef University.
* Attending the Clarivate-Web of Science- JCR workshop organized by Clarivate Analytics cooperating with EKB, on 21 April 2019 held at the Faculty of Medicine, Beni-Suef University.
* Attending the international publication workshop with chief editors of **Nature Nanotechnology** and **Nature Materials, 9 Oct. 2019,)**, held at PSAS, Beni-Suef University**.**
* Development of thinking and management skills “management approach”
* PCR Principles, Applications, DNA Extraction Gene and Protein Regulation.

**Professional skills:**

* Dealing with various office programs.
* Managerial and teamwork skills.
* Communication skills.
* Social Media Marketing.
* Fundamentals of Pricing.
* Problem-solving and Decision making.
* Complementary general knowledge.