



MOHAMMAD SAEID RASHIDI NEZHAD

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[SaeidRashidiN](#)



SUMMARY

A motivated student interested in research, learning, and making progress, with brilliant experiences and honors such as managing Nanotechnology Scientific Association, achieving valuable scientific Olympiad medals, and more.

Creative, responsible, and hard-working to meet the best performance.

Eager to experiment and accurate analysis of scientific phenomena.



EDUCATION

Master of Science in Materials Science and Engineering

Sharif University of Technology

2022 – PRESENT

Bachelor of Science in Materials Science and Engineering

Sharif University of Technology

2017 – 2022 | GPA 3.7/4

Thesis: *Synthesis and Comparison of a Wide Range of Gold and Silver Nanoparticles with Different Morphologies for use in Novel Drug Delivery Systems for Cancer Treatment*

Supervisor: **Dr. Abdolreza (Arash) Simchi** | cnam.ir

High School Diploma in Mathematics and Physics | Allameh Helli High School (**NODET**)

2013 – 2017 | GPA 19.8/20



RESEARCH INTERESTS

- Biomaterials
- Smart Drug Delivery Systems
- Tissue Engineering
- Nanotechnology
- Nanocomposite Hydrogels
- In-vivo Biomedical Implants



EXPERIENCES

Research Center of Nanostructured and Advanced Materials | [RCNAM](#) | 2021 – Present

I'm so proud to be a member of [Prof. Simchi](#)'s extraordinary *biomaterials* team.

Currently, I'm doing research in the [Research Center of Nanostructured and Advanced Materials \(CNAM\)](#) at Sharif University of Technology (SUT).

President of Sharif Nanotechnology Scientific Association | INIC | 2021 – Present

In August 2021, with a majority of votes in the Sharif Student Scientific Association of Nanoscience and Nanotechnology election, I was selected as the president and selected again in 2022.

This association is a subset of the IRAN Nanotechnology Innovation Council (INIC) in the Vice-Presidency for Science and Technology.

The most important goals of this association are:

- Development and promotion of nanotechnology
- Training nanotechnology specialists
- Publication the Journal of Nanoscience and Nanotechnology
- Support for selected researches
- Holding workshops and training classes

Advanced Industrial Corrosion and Wear Resistance Coatings | INEF, PEDCO, and ICST | 2020

As a member of the National Elites Foundation of Iran (INEF), I was involved in an industrial research project at the request of the Petroiran Development Company (PEDCO) with the help of the Institute for Color Science and Technology (ICST).

My responsibility was to research and develop *nanostructured coatings*.

The Concentration of Low-grade Hematite Soil by Modern Methods | SUT and AIIDG | 2019

As a member of the research team in the Department of Materials Science and Engineering at Sharif University of Technology (SUT), I participated in this project at the request of the Arzesh International Investment Development Group (AIIDG) and was involved in all stages, from extracting the soil to achieve a high-quality product.

Author and Editor of Educational Books and Mock Exams | CCE | 2017 – 2020

I have cooperated with the biggest organization that prepares students for university admission in Iran (Cultural Center of Education (CCE)). In this organization, I used to create and edit **chemistry questions** for more than 100 mock exams and **publish** more than 10 most circulated **educational chemistry books** for high school students.



CONFERENCE PRESENTATIONS

- Synthesis of **Ag/Au core-shell** using seed-mediated growth process for **biomedical** applications | 2021
- **Nanocomposite Hydrogels** and Their Applications in **Smart Drug Delivery Systems** and **Tissue Engineering** | 2021
- The Structure and Properties of **Bone Tissue** | 2021
- Nanostructured **Diamond-Like Carbon (DLC)** Coatings and Their Applications as **In-vivo Biomedical Implants Coating** | 2020
- Stress-Corrosion Cracking (SCC) in **Brass Alloys** | 2020
- Structure, Manufacturing Methods, and Applications of **Graphene and Graphene Nanocomposites** | 2019
- Applications of the **Jules-Thompson Effect** in **Materials Science and Engineering** | 2019
- **Gas Refrigerant Inversion Curve** and Performance Improvement of **Linde Refrigerator Components** | 2019
- **Artificial Photosynthesis** and **Carbon Stabilization** in Carbon Dioxide | 2017
- Novel Method of **Glyoxylic Acid Electrosynthesis** | 2016



HONORS AND AWARDS

- Gold Medal (1st rank in Iran) of 26th Scientific Olympiad for University Students in the field of **Materials Science and Engineering** | Nov 2021
- Silver Medal (2nd rank in Iran) of 25th Scientific Olympiad for University Students in the field of **Materials Science and Engineering** | May 2021
- **Credit** for pursuing **graduate study without entrance exam** at the field and time of desire | 2021
- Selected as the **President of Sharif Nanotechnology Scientific Association** with a majority of votes in election | 2021
- Reaching the **final stage** of the National Nanotechnology Competition | 2021
- Introduced as the **top student** by Department of Materials Science and Engineering of Sharif University of Technology | 2021
- Admission in the fourth course of Nano-Startup by gaining the **third rank in Iran** among all the bachelor's degree students of all fields | 2020
- **Ranked fourth in Iran** in Nano Teaching Ability Test among all participants from the field of **Materials Science and Engineering** | 2020
- **Author and editor** of more than ten most circulations **chemistry educational books** | 2017 – 2020
- **Holds the highest grade in one course** at the Department of Materials Science and Engineering since its establishment by gaining the wonderful grade 21.7/20 | 2019
- **Ranked top 0.5%** of participants in Iran universities entrance exam for B.Sc. degree | 2017
- **Top graduated student** of National Organization for Development of Exceptional Talents and Young Scholars with 19.8/20 GPA | 2017
- The **leader** of the expedition team to the **National Chemistry Marathon competitions** and winning the **Bronze Statue** | 2016
- **Ranked first** in the second stage exam of **Talented Students Chemistry Olympiad** | 2016
- Achieving the **top rank** in **Mathematical Olympiad of Iran's Elite Scholars** | 2010
- The **top talented student** by obtaining the **only full score** from the test of **intelligence and creativity** in the Olympiad Center of MENSA International High IQ Society according to the standards of World Talent Organization from the beginning of this test till now | 2007



INVENTION

Synthesis of Strong Nanostructured Detergent Powder using Food Waste | IFIA | 2012

During middle school, I spent three months at the **Inventions and Innovations Club of the Modern Research Institute**. My main idea was using **food waste** like walnut and almond peels to synthesis a very strong **nanostructured detergent powder**. I formed a team, and we could come up with a **valuable invention**, which was able to attract the opinion of the judges in the **International Invention Competition** held by the International Federation of Inventors' Associations (IFIA) and was selected as **the best**.



SELECTED COURSES

- *Nanotechnology Applications Workshop*
- *General Chemistry and Laboratory*
- *Programming*
- *Mechanical Properties of Materials*
- *Inventions and Innovations Club*
- *Effective Communication*
- *Practical Principles of Career Success from the Perspective of International Experiences*
- *Material Selection*
- *Familiarity with microscopes*
- *Composite Materials*
- *Electronic Properties of Materials*
- *Entrepreneurship*
- *Team building and Leadership*
- *Writing and Transmitting Scientific and Engineering Contents*



LANGUAGES

- *Persian (Native)*
- *English (Fluent)*



REFERENCES

- *Prof. Abdolreza (Arash) Simchi | cnam.ir | simchi@sharif.edu*
- *Dr. Gholamreza Pircheraghi | sharif.edu/~pircheraghi | pircheraghi@sharif.edu*
- *Dr. Mojtaba Movahedi | sharif.edu/~m_movahedi | m_movahedi@sharif.edu*
- *Dr. Reza Alizadeh | sharif.edu/~r.alizadeh | r.alizadeh@sharif.edu*