



Mr. HAMID BABAEI  
Ph.D. of Applied Chemistry



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## SKILLS

- Precious metals chemistry and metallurgy technologies
- R&D and technical management
- Synthesis and preparation
- Strong communication
- Operational viability
- Scale up
- Time management
- Hard working
- Problem solving
- Active listening
- Corporation and team work
- Social perceptiveness
- Teaching at schools and universities
- Technical consulting
- Consulting of standardization

## TECHNICAL

- Precious metals industrial processes
- Hydrometallurgy and pyrometallurgy technologies
- Gold & Jewelry production process
- Analysis of metals, alloys and solutions by AAS, XRF and titration
- Surface finishing technologies in metals working industries by mechanical and electrochemistry
- Precious metals compounds
- Precious & nonprecious metals electroplating (gold, silver, palladium, platinum, rhodium, copper, nickel, zinc, tin, chrome and resin plating)
- Gold, silver, PGMs refining by hydrometallurgy and pyro metallurgy
- Precious and semiprecious metals recovery and separation from any types of wastes

## MEMERSHIPS

- Gold jewelry association in Iran
- Electroplating and surface treatment association in Iran
- Standardization organization and related associations

## LANGUAGE

- Persian
- Turkish
- English

## PROFILE

Technical and R&D activities with 13+ years of invaluable experience in handling several projects; Electroplating and its basic precious material preparation, recovery, refinery, metals separation and gold jewelry factories start up. Synthesis and production of precious metal materials from desktop to semi-industrial scale, being able to identify opportunity, overcome objections, build long-term mutually beneficial relationship with vendors, workforce, and clients. Establishing research base centers and quality control laboratories in some companies, universities and special customers.

## EDUCATION

|                                                        |                  |
|--------------------------------------------------------|------------------|
| <b>Post Doc. in Precious metals compounds and Inks</b> | <b>2020-2021</b> |
| Zanjan University, Zanjan-Iran                         |                  |
| <b>Ph.D. in Applied Chemistry</b>                      | <b>2012-2018</b> |
| Islamic Azad University, TNB, Tehran-Iran              |                  |
| <b>M.Sc. in Applied Chemistry</b>                      | <b>2008-2011</b> |
| Islamic Azad University, TCB, Tehran-Iran              |                  |
| <b>B.Sc. in Applied Chemistry</b>                      | <b>2003-2006</b> |
| Abhar Payam Noor University, Zanjan-Iran               |                  |

## PUBLISHED ARTICLES

- I. Electroplating Nanostructured Hard Gold through the Pulse Galvanostatic Method, H. Karami, H. Babaei, Int. J. Electrochem. Sci., 7 (2012) 601-614.
- II. The Effect of Pulsed Electrodeposition Parameters on the Percentage of Gold and Thickness of the Gold-Copper Layers, Hamid Babaei et al. / International Journal of Engineering and Technology (IJET), Vol 11 No 2 Apr-May 2019.
- III. Investigation and Electrodeposition Rate Optimization of Au-Cu Alloy Co-Deposition, Hamid Babaei et al. / Journal of Computational and Theoretical Nanoscience 16(12):5197-5204, Dec. 2019.
- IV. Investigating the Au-Cu thick layers Electrodeposition Rate with Pulsed Current by Optimization of the Operation Condition, H. Babaei, M. Khosravi, M. R. Sovizi, S. A. Khorramie, J. Electrochem. Sci. Technol. 2020;11(2):172-179.
- V. The Influence of Effective Parameters on Optimizing the Electrochemical Deposition Rate of Au-Cu Alloy with High Thicknesses for the Production of Hollow Gold-Jewelry Artifacts with Pulsed Current (PC) on A Silver Substrate, H. Babaei, Analytical & Bioanalytical Electrochemistry. 2019: 11(9), 1270-1288.

## WORK EXPERIENCE

|                                                       |                           |
|-------------------------------------------------------|---------------------------|
| General electroplating industries (Technical manager) | <b>2010-2012</b>          |
| Precious metals industries (Technical and R&D)        | <b>2012- till now ...</b> |
| Teaching in gold – jewelry schools and universities   | <b>2012-till now...</b>   |
| Research and consulting in gold & jewelry industries  | <b>2012- till now...</b>  |

## RESPONSIBILITY

Technical and R&D manager in LAKSAN Galvano Co.  
([www.laksangalvano.com.tr](http://www.laksangalvano.com.tr))  
University master in Pars University ([www.parsuniversity.ir](http://www.parsuniversity.ir))  
Precious metals consulting at some companies in Iran, Turkey and ...  
([www.sbfr.ir](http://www.sbfr.ir), [www.ptmakina.com](http://www.ptmakina.com), <https://www.iatturkey.com/tr/>)



Turkey