



## REZA JABIRI

### PERSONAL DATA

Date of Birth: December 22<sup>nd</sup>, 1989

Place of Birth: Iran

Language: Persian, English

Marital Status: Single

### CONTACT

Address: Isfahan, Iran

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### EDUCATION

**The University of Sistan & Baluchestan, Iran, Zahedan M.Sc. in Nanoscience and Nanotechnology-Nanophysics 2014-2017**

Zarrinfam Layer on Glass (silver-stained glass): Production and Study on Microstructural and Optical Properties(supported by Iran Nanotechnology Innovation Council).

**Payam-E- Noor University of Najafabad, Iran, Najafabad BS in Solid-state Physics 2008-2013**

**17-Shahrivar High school,Iran, Isfahan High School in the field of Mathematics & Physics 2004-2008**

### PUBLICATIONS AND EDUCATIONAL ACTIVITIES

• **Jabiri R, Rashidi Huyeh M, Razavi F. Production of colored glass containing silver nanoparticles by Zarrinfam method: microstructural study and optical properties.** 1<sup>st</sup> Iran Congress on Industrial Applications of Advanced Materials and Manufacturing, <https://civilica.com/doc/673767/>

• **Usefzaei T, Rashidi Huyeh M, Jabiri R. Optical properties of the lustre glaze produced on copper shield.** ICOP & ICPET \_ INPC. 2020; 26 :717-720. <http://opsi.ir/article-1-2165-fa.html>

• **Teacher Assistant at The University of Sistan & Baluchestan, Two semesters, courses: Analytical mechanics and electricity and magnetism physics.** 2016-2017

• **Master Thesis Advisor of lustre layer on enamel glaze: production and study on structure and optical properties** . University of Sistan & Baluchestan. Usefzaei T, Rashidi Huyeh M, Jabiri R. 2019

• **Master Thesis Advisor of chemical composition and firing condition effects on Zarinfam glaze(lustre glaze)** . University of Sistan & Baluchestan. Nakhaeimoghadam M, Rashidi Huyeh M, Jabiri R. 2020

### WORK EXPERIENCE

• **Project Manager at Nemachin brick Co. Isfahan province.** 2/2018-5/2019

• **Material lab researcher at Behyaar Sanat Sepahan Co.** Isfahan Science and Technology Town. 5/2019-11/2020

• **Project manager at Madyar Sanat Pars Co holding of Ring Khodro Pars Co.** Tehran province. 11/2020-Until now

### SKILLS

Softwarers	Analyses	Other skills	languages
-Microsoft office (90%) -Mathlab (70%) -Comsol Multiphysics (50%) -Origin Pro (70%) -X'pert (50%)	-SEM/EDX -XRD -XRF -Uv-visible (T80 UV/VIS Spectrometer device operator)	-Programming (mathlab and Arduino) -Vacuum equipment -Laboratory (material, thin film coating, nanophysics and optics) -Glass and glaze -Metallography	-Persian (mother tongue) -English (60%)

## PRACTICAL ACTIVITIES

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- **Zarrinfam technique (lustre technique) on glass, tile glazed and enamel.** Nemachin Co and Personal activity.
- **Growth of CsI:Tl crystals using vertical Bridgman technique for X-ray imaging detectors( Design and construction of vertical Bridgman furnace).** Behyaar Co.
- **Fabrication of columnar CsI:Tl scintillator layers by the thermal evaporation method for X-ray imaging detectors ( Design and construction of thermal evaporation device).** Behyaar Co.
- **Design and construction of various electrical furnaces ( cylindrical quartz tube, lab and vacuum furnace with graphite, SiC, and alloy heating elements).** Nemachin Co, Behyaar Co, and Madyar Co.
- **Design and construction of cathodic arc deposition device for deposition of CrN hard coating and TiN decorative coating.** Madyar Co.
- **Synthesis of potassium superoxide on a semi-industrial scale.** Behyaar Co.
- **Making tungsten leaf used in multileaf collimator (MLC) by powder metallurgy process.** Behyaar Co.
- **Synthesis of materials and nanoparticles such as CuS, AgS, MoS<sub>2</sub>, ZnS, CrN, TiN.** Nemachin Co, Behyaar Co, and Madyar Co.

## INTERESTS

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- Optical properties of nanomaterials and nanostructures.
- lustre glaze technique.
- Opalic materials and light emission.
- Synthetic gemstones.
- Natural photonic structures
- Design and construction of laboratory equipment for nanomaterials synthesis.
- Design and construction of Nanoscience instruments.