

## In The Name Of GOD

### Personal Information

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Name: Golar Kafili

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### Education

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- 2005-2009                      **Mathematics Diploma**, Parvin Etesami High school, Tabriz, Iran.
- 2009-2013                      **BSc: Material Engineering- Extractive Metallurgy**  
Sahand University of Technology, Department of Material Engineering,  
Tabriz, Iran.  
**Thesis:** Electrorheological and Magnetorheological Fluids (20/20)  
**Supervisor:** Professor Jafar Khalil Allafi
- 2013-2015                      **MSc: Nanotechnology- Nanomaterials**  
Isfahan University, Faculty of Advanced Sciences and Technologies,  
Department of Nanotechnology Engineering, Isfahan, Iran.  
**Thesis:** Synthesis, Characterization and Sintering of Alumina/ Yttria  
Core-Shell Ceramic Nanoparticles (19.75/20)  
**Supervisor:** Professor Behrooz Movahedi
- Since 2017                      **PhD Candidate: Nanotechnology**  
Sharif University of Technology, Institute for Nanoscience and  
Nanotechnology, Tehran, Iran.  
**Supervisor:** Abdolreza Simchi, Elnaz Tamjid Shabestari

### Research Interests

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Tissue Engineering  
3D bioprinting  
Drug delivery  
Nanomaterials synthesis and characterization  
Transparent ceramics

## Publications

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- **Golara Kafili**, Behrooz Movahedi, Mostafa Milani, "Synthesis and Characterization of Yttrium Aluminum Garnet (YAG) Ceramic Nanoparticles", 4<sup>th</sup> international conference and 9<sup>th</sup> congress Iranian Metallurgical Engineering Society and Iranian Foundrymen's Society (iMAT 2015), 10<sup>th</sup> -11<sup>th</sup> of November 2015.
- **Golara Kafili**, Behrooz Movahedi, Mostafa Milani, " A comparative approach to synthesis and sintering of alumina/yttria nanocomposite powders using different precipitants", Journal of Materials Chemistry and Physics, pp. 136-144, 2016.
- **Golara Kafili**, Mohammadreza Loghman Estarki, Mostafa Milani, Behrooz Movahedi, "The effect of TEOS on the microstructure and phase evolutions of YAG phase by formation of alumina/yttria core-shell structures", The Journal of American Ceramic Society, pp. 4305-4316, 2017.
- **Golara Kafili**, Behrooz Movahedi, Mostafa Milani, "Optimization of slip casting parameters of alumina/yttria nanocomposite powder for obtaining transparent yttrium aluminium garnet ceramics", Journal of advanced materials in engineering, pp.51-62, 2017.
- **Golara Kafili**, Amir Alhaji, Behrooz Movahedi, "The effect of different precipitant agents on the structure and morphology of alumina/magnesia ceramic nanocomposites", 7<sup>th</sup> International Conference on Materials Engineering and Metallurgy (iMAT 2018), 9<sup>th</sup>-10<sup>th</sup> of October 2018.
- **Golara Kafili**, Behrooz Movahedi, Ghasem Dini, Mostafa Milani, "Shell thickness estimation of alumina/yttria core-shell nanoparticles via x-ray diffraction analysis", Journal of Materials Chemistry and Physics, vol 223, pp. 564-568, 2019.
- **Golara Kafili**, Amir Alhaji, "Effect of different precipitant agents on the formation of alumina/magnesia composite powders as the magnesium aluminate spinel precursor", Journal of Advanced Powder Technology, vol 30, pp. 1108-1115, 2019.
- **Golara Kafili**, Mostafa Milani, Behrooz Movahedi, "The effect of optimized slip casting parameters on the microstructure and density evaluation of YAG ceramic", Journal of Ultrafine Grained and Nanostructured Materials, Vol.52, pp.154-163, 2019.

## Awards and Honors

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Member of **National Elites Foundation of Iran** (2017-2020).

**1<sup>st</sup> Rank** among 7 students in PhD of Nanotechnology, Sharif University of technology.

**2<sup>nd</sup> Rank** in Nanomaterial Ph.D. entrance exam, Sanjesh organization, 2017.

**1<sup>st</sup> Rank** among 7 students in MSc of Nanotechnology, Isfahan University, 2015.

**Ranked 5<sup>th</sup>** among 35 students in BSc of Material Engineering, Sahand University of Technology (2013).

**Top 10** in the high school.

## Skills

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Microsoft Word, Microsoft Excel, Microsoft Powerpoint, Photoshop, Endnote, Design Expert, Digimizer

Analysing characterization results such as FTIR, XRD, FESEM, TEM, TG-DTA, DLS, Maud, Zeta potential, Rheology experiment.

Working experience with Sputtering deposition instrument, Autolab instrument for electrochemical applications and Gas Chromatography instrument.

## Languages

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Persian **Native**

Turkish **Native**

English **Merely Fluent**, Speaking, Writing and listening. (MSRT English language exam: 73/100)

## Workshop Certificate

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- Quantitative analysis with Maud (Material Analysis Using Diffraction), Dr. Ghasem Dini, Isfahan University.
- 3D bioprinting workshop, Dr. Lobat Tayebi, Sharif University of Technology.
- Tissue Engineering and Regenerative Medicine, Dr. Nasim Annabi, Sharif University Of Technolgy.