

In The Name Of GOD

Personal Information

Name: Golaraf Kafili

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Education

- 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

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

Publications

- **Golara Kafili**, Behrooz Movahedi, Mostafa Milani, "Synthesis and Characterization of Yttrium Aluminum Garnet (YAG) Ceramic Nanoparticles", 4th international conference and 9th congress Iranian Metallurgical Engineering Society and Iranian Foundarymen's Society (iMAT 2015), 10th -11th 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", 7th International Conference on Materials Engineering and Metallurgy (iMAT 2018), 9th-10th 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

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

1st Rank among 7 students in PhD of Nanotechnology, Sharif University of technology.

2nd Rank in Nanomaterial Ph.D. entrance exam, Sanjesh organization, 2017.

1st Rank among 7 students in MSc of Nanotechnology, Isfahan University, 2015.

Ranked 5th among 35 students in BSc of Material Engineering, Sahand University of Technology (2013).

Top 10 in the high school.

Skills

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

Persian **Native**

Turkish **Native**

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

Workshop Certificate

- 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.