**Zahra Mahmoudi**

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* **Education**
* **(2013-2019):** Ph.D. student in Materials Science and Engineering- Advance Materials, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran. GPA: **17.20/20**.
* **(2007-2010)**: Master of Science in Materials Science and Engineering - Ceramic**,** Iran University of Science and Technology, Tehran, Iran. Overall GPA: **15.75/20**.
* **(2002-2006)**:Bachelor of Science in Materials Science and Engineering-Ceramic, Islamic Azad University, Saveh, Iran. Overall GPA: **16.45/20**.
* **Research Interests**
* Advanced Materials
* Nano Materials
* Coating and Nano-layer
* Composite
* solar cell

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* **Languages**
* **MCHE (MSRT)** Exam: **Overall: 64/100**
* **Publications**

**ISI Index Articles:**

* **Z. Mahmoudi,** H. R. Rezaie and H.Ghassai, “Investigation of the formation of different phases in a frittic glaze at different temperatures and pressures”, Journal of ceramic processing research. 12 (2011) 708-711.
* **Z. Mahmoudi,** S.H. Tabaian, H.R. Rezaie, F. Mahboubi and M.J. Ghazali, “Synthesis of Ti2AlC & Ti3AlC2 MAX phases by Arc-PVD using Ti–Al target in C2H2/Ar gas mixture and subsequent annealing”, Ceramics International, 46 (2020) 4968-4975.
* **Z. Mahmoudi,** S.H. Tabaian, H.R. Rezaie and F. Mahboubi, “Synthesis of Ti2AlC MAX phases by Magnetron Sputttering-PVD using Ti–Al target in CH4/Ar gas mixture and subsequent annealing”, Submitted.

**Conferences:**

* **Z. Mahmoudi**, H. Zarezade, H. Ghassai, H. R. Rezaie, “Preparation of nano silica by alkaline melting process”, The 3rd International Congress on Nanoscience and Nanotechnology (ICNN2010), Shiraz.
* **Z. Mahmoudi,** S.H. Tabaian, F. Mahboubi, “Fabrication methods of MAX phase coatings”, The 13th Scientific Student Conference on Metallurgical and Materials Engineering (2016), Tehran.
* زهرا محمودي،حسين قصاعي، حميدرضا رضايي،"بررسی راهکاری جهت تولید لعاب فریتی با هدف حذف فرآیند فریت سازی" ،هشتمین کنگره سرامیک ایران،ارديبهشت 1390، دانشگاه علم و صنعت ايران، مقاله برگزیده
* **Teaching Experience**
* **(2016-2020):** Teacher in “**Laboratory of Mechanical Properties of Materials**”, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
* **(2015-2016):** Teacher Assistant in “**Diffusion in solids**” Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
* **(2014-2016):** Teacher Assistant in “**Mechanical Properties of Materials**”, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
* **(2020-present):** Teacher, Islamic Azad University, Science and Research Branch, Tehran, Iran
* **(2010-2014):** Teacher, Islamic Azad University, Saveh Branch, saveh, Iran
* **(2011-present):** Teacher, [Energy Institute of Higher Education](http://energy.ac.ir/), saveh, Iran
* **Technical Skills**
* **Engineering Software**: AutoCad, X, Pert, Clemex
* **Programming Language**: Turbo Pascal, C++
* **Other:** Photoshop, Origin pro, MS Office (Word, Excel, PowerPoint)