

Mohammad Hossein Monzavi, PhD Candidate

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Education

 École Polytechnique of Montréal, Montréal, QC, Cana Ph.D. Degree, Department of Chemical Engineering 	ıda	()		
• The University of Tehran, Tehran, Iran M.Sc. Degree, Department of Metallurgy & Materials Engineering Thesis: "Investigation on Increasing Grad of Oolitic Iron Ore by Redu	uction with Non-Coking Coal to Mag	(2017) gnetite"		
• Sharif University of Technology, Tehran, Iran B.Sc. Degree, Department of Material Science & Engineering Thesis: "The investigation on the effect of solution treatments cast alloy formability" "	time and temperature on the Mg	(2014) -Zn-Si		
 Research Interests High Temperature and Pressure Processing Leaching and Titration Material Extractive and Purification Heat Transfer Material Characterization (TEM, FESEM, TGA, DSC) Waste Material Recycling Chemical Reaction Engineering Mineral Processing 				
Work Experience				
• Mines and Metals Technological Engineering (MMTE), Tehran, Iran	Process Research Engineer	2016		
 Manufacture of DRI Project for SIRJAN Iranian Steel Co. (SISCO), Kerman, Iran 	Internship	2015		
• Tabarestan Steel Foundry(T.S.F), Tehran, Iran	Trainee	2013		

Research Background

- Investigation on methods for reducing iron oxide with solid coal. •
- Cobalt compounds extracted from secondary sources (used Hydro metallurgy methods). •
- Recovery and Refining of Aluminum (used Pyro and Hydro metallurgy methods such as High Temperature • processes and Titration).

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- Waste from Plating and Electroplating industry recovery" made review paper and examine the new methods available.
- Rhodium separation from platinum and palladium by solvent extraction methods.
- Welding semi-solid Al-Mg-Si alloys (product an innovative furnace worked by electricity and used small electric mixer to made homogeneous Semi-Solid region).

Teaching Experience

•	Pyro-Metallurgy Laboratory , University of Tehran, Tehran, Iran	Research Assistant	2015-2017
•	Thermodynamic, University of Tehran, Tehran, Iran	Teaching Assistant	2017
•	Advanced Kinetic, University of Tehran, Tehran, Iran	Teaching Assistant	2016
•	Physical Chemistry, University of Tehran, Tehran, Iran	Teaching Assistant	2016
•	Kinetic, University of Tehran, Tehran, Iran	Teaching Assistant	2015

Journal Publications

• Monzavi, M.H; Raygan, Sh; "Investigation on Reduction of Oolitic Iron Ore to Magnetite by Non-Coking Coal and Magnetite Separation"; submitted to the International of Mineral Processing

Conference Publications

- Monzavi, M.H; Raygan, SH; "Investigation on effect of temperature and time on process of recycling Iron ore waste by producing magnetite". 1st Iran Congress on Industrial Applications of Advanced Materials and Manufacturing, Tehran, Iran, 2017.
- Monzavi, M.H; Raygan, Sh; "Reduction of Hematite to Magnetite by Solid Coal"; International IMAT Conference, Shiraz, Iran, 2016.
- Monzavi, M.H; Towhidi, N; "The development of steel industry in Iran DR/EAF" in Sustainable Industrial Processing Summit, SIPS Conference, Antalia, Turkey, 2015.
- Monzavi, M.H; Kazemnejad, M; "The effect of cooling rate after ultra-rapid annealing on the microstructure and hardness of low carbon steel", International IMAT Conference, Tehran, Iran, 2015.

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• Monzavi, M.H; Karimitaheri, A; "The investigation on the effect of solution treatment time and temperature on the Mg-Zn-Si cast alloy formability", International IMAT Conference, Tehran, Iran, 2015.