

## CV

### Personal Details

Name: **Alireza Javadi**  
Date of Birth: 03 September 1985, Iran  
Marital status: married and one child  
Tel. +98 9133619836  
E-mail: [alireza.javadi@kashanu.ac.ir](mailto:alireza.javadi@kashanu.ac.ir),  
[javadi64@gmail.com](mailto:javadi64@gmail.com)



### Academic - Education

**2015-2016 postdoc Degree** in mineral processing *at* Tehran University, Iran

- Thesis Topic: Using Nanoparticle in flotation of ultra-fine chalcopyrite

**2015 PhD Degree** in mineral processing *at* Luleå University of Technology, Sweden

- Thesis Topic: Sulphide Minerals: Surface Oxidation and Selectivity in Complex Sulphide Ore Flotation
- Advisor: Professor Hanumantha Rao Kota

**2013 Licentiate Degree** in mineral processing *at* Luleå University of Technology, Sweden

- Thesis Topic: Sulphide Mineral Flotation: A New Insight into Oxidation Mechanisms
- Advisor: Professor Hanumantha Rao Kota

**2010 Master Degree** in Mineral Processing *at* Kashan University, Iran

- Thesis Topic: Recovery of magnesium chloride from Salt lake brine
- Advisor: Associate Professor Aliakbar Abdolazadeh

**2008 Bachelor Degree (B.Sc.)** in Mining Engineering *at* Kashan University, Iran

- Project: using image analysis for Fragment Size Distribution in Blasting
- Advisor: Associate Professor Hassan Bakhshandeh

## CV

### *Supervision of PhD and master student*

***Supervision of over 7 MSc students since 2016.***

- 1- **Mr. skandari.** Feasibility study of using of pre-concentration systems in Miduk Copper plant, 2017-2018.
- 2- **Mr. ghorbanian.** Iron ore processing from iron kashan ores, 2018-2019.
- 3- **Mr. Alipour.** Flotation of phosphate from lar ores, 2019.
- 4- **Mr. rostami.** Antimony oxide flotaion from sefidabeh ores, 2019.
- 5- **Mr. Yosefi.** Feasibility study of molibden ore processing from mianeh ores., 2019.
- 6- **Mr. hashmi.** Snthesis of Flocculant for alumina plant, 2019.
- 7- **Mr. shahian.** Magnesium production from karnalite and bischofite, 2019.

#### Occupation:

- *Assistant Professor at Mineral Processing Grope, University of Kashan, Iran from March 2016*
- *Head of research team «Cobalt recovery from zinc leaching waste» in Yazd company,*
- *Head of research team «Antimony oxide processing » in IMPASCO company*
- *Head of research team «synthesis of collector for potash flotation» at IMIDRO Company,*
- *Head of research team and Implementing the chromite processing plan of Chaman-e-Chabahar Company*
- *Head of research team «the processing of Titanium» at IMIDRO Company,*
- *Head of research «hematite processing » moman-omrane-Chabahar Company*
- *Head of research «Phosphate ore Beneficiation» in Impasco Company*

<b>PROFESSIONAL EXPERIENCES</b>
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Since March 2016	Assistant professor	Mining Group, Engineering Department, University of Kashan, Iran
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#### Academic responsibilities & supervisions:

- Director of program “chrome and ferrochrome plant”.

- Director of program “Salt lake Mineral Processing”
- Director of program “salt-metal reductive extraction”
- Director of program “Blue Mining”.
- Director of program “Hematite processing”.
- Director of program “Titanium pigments processing”.
- Director of program “Deep Mining and in-situ processing”.

<b>Teaching</b>
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University of Kashan, Iran

- Mineral processing, **Bachelor course**
- Sustainable Mining, **Bachelor course**
- Mineralogy and Mineral Processing, **Bachelor course**
- Mineral Resources management, **Bachelor course**
- HSE, **Bachelor course**
- Advanced Flotation, **Master course,**
- Environment and Mineral Processing, **Master course,**
- Advanced Hydrometallurgy, **Master course,**
- Electrochemistry in sulfide mineral, **Master course,**
- Bioprocessing and Bio flotation, **Master course,**
- Oxidation and Acid mine drainage, **Master course,**
- Nanotechnology in Flotation, **Master course,**
- Surface Chemistry, **PhD course**
- waste management and recycling, **PhD course**
- Advanced flotation, **Master course,**

<b>Research Experience</b>
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**Main scientific fields of interest**

- Synthesis of Green Collector and Frother in Flotation of (laboratory and on-site works)
- Flotation of fine particle: using of Nanoparticles as collectors in Flotation of fine particle, 2018-2019, (laboratory and on-site works)
- Flotation of sulphide mineral (laboratory and on-site works)
- Modelling, Scale-up and on site-tests of Column flotation and intensive flotation machines. (laboratory and on-site works)
- Modelling of aggregate growth and destruction phenomena for fine particle and precipitate flotation.
- Recovery of rare Earth from Salt Lake brine (laboratory and on-site works)

- Recycling of process water in Mineral processing plants. (laboratory and on-site works)
- Recovery of Magnesium chloride from Salt Lake brine(laboratory and on-site works)
- Processing of Subsea Mineral(laboratory works and on-site works)

**- Responsibilities & supervisions:**

- Director of research “Processing of industrial wastes” at University of Kashan
- Director of research “Processing of Subsea Mineral” at University of Kashan.

**Editorial activities**

Reviewer for “International mineral Processing» (Elsevier);

Reviewer for “Mineral and metallurgical processing”

Awards
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| <ul style="list-style-type: none"> <li>• Honours Award, BSc University of Kashan, Iran, 2008, First rank.</li> <li>• Honours Award, MSc University of Kashan, Iran, 2010, Second rank.</li> <li>• The best student of University of Kashan in 2007.</li> <li>• Honours Award, Best student in Iran in 2007.</li> <li>• candidated for the best licentiate Thesis in Luleå Tekniska Universitet in 2013</li> <li>• candidated for the best 2013 Licentiate thesis prize at the Bergforsk meeting in Luleå Tekniska Universitet.</li> <li>• Honours Award, Best techer in University of Kashan in 2018.</li> </ul> |
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Exprince work
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| <ul style="list-style-type: none"> <li>• Consultant in lead- Zinc Mine company ( Iran).</li> <li>• Faculty member of University of Kashan, Department of Mining Engineering,</li> <li>• Consultant of the Lipar Metal Oxide Company for the processing of Chabahar Magnetite</li> <li>• Managing Director of Mapsa Mining Company</li> <li>• Consultant of Donna lead company</li> <li>• Cooperation with Boliden Mining Company, Sweden</li> <li>• Cooperating with the Swedish LKAB (LKAB)</li> <li>• Cooperation with the Swedish Outotec Mining Company</li> </ul> |
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Publications:
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Total - 30

Peer reviewed journals- 16

H- index- 6

i<sub>10</sub>- index 6

Citations-148

**Peer reviewed publications**

1. **Alireza Javadi**, A. A. Abdullah Zadeh, Recovery of Bischofite from Salt Lake Brine by Solar Evaporation and Organic Solvent Leaching, *Journal of Iranian Chemical Engineering*, 2012, (Issue 61).
2. **Alireza Javadi**, A. A. Abdullah Zadeh, recovery of bischofite from salt lake brine by Ion flotation, *Journal of Iranian Chemistry and Chemical Engineering*, Winter 2011, 30 (4 (63)) :113-120.
3. **Alireza Javadi**, Anna-Carin Larsson, Kota Hanumantha Rao, 2013, Formation hydrogen peroxide by pyrite and its influence on flotation, *Journal of Minerals Engineering*, 49 , P. 128-134.
4. **Alireza Javadi**, Kota Hanumantha Rao. Formation hydrogen peroxide by chalcopyrite and its influence on flotation –*Journal of Minerals and Metallurgical processing*, 2013, 30 (4), 212-219.
5. **Alireza Javadi**, Kota Hanumantha Rao. Formation hydrogen peroxide by sphalerite – *International Journal of Mineral Processing*, 2013, 125, 78-85.
6. **Alireza Javadi**, Kota Hanumantha Rao, 2014. Formation hydrogen peroxide by galena and its influence on flotation – *Advanced Powder Technology*, 25, 832-839.
7. **Alireza Javadi**, Kota Hanumantha Rao. Formation hydrogen peroxide by sulphide minerals – *Journal of Hydrometallurgy*, 2014. 141, 82-88.
8. Hanumantha Rao K, **Javadi Alireza**, Karlkvist T, Patra A, Vilinska A, et al. Revisiting Sulphide Mineral (Bio) Processing: A Few Priorities and Directions. *J Powder Metall Min.* 2013. 4 (2).
9. Fatemeh Sadat Hoseinian, Mehdi Irannajad, **Alireza Javadi**, Ion flotation for removal of Ni(II) and Zn(II) ions from wastewaters, *International Journal of Mineral Processing*, 2015, 143, 131–137.
10. **Alireza Javadi**, Kota Hanumantha Rao, Effect of grinding environment on galena flotation. *The Open Mineral Processing Journal*, 2015, 8, 1 -6.
11. **Alireza Javadi**, Kota Hanumantha Rao. Complex Sulphide ore flotation, Effect of depressants addition during grinding on formation Hydrogen peroxide – *International Journal of Mineral Processing* 157 (2016) 89–97
12. **Alireza Javadi**, Kota Hanumantha Rao. Complex Sulphide ore flotation, Effect of Na<sub>2</sub>S on formation Hydrogen peroxide –submitted to *Jornal of mineral Engineering*, 2019.

13. **Alireza Javadi**, –submitted to Transactions of Nonferrous Metals Society of China, 2019
14. **Morteza Sadeghi Naeini, Alireza Javadi**, Synthesis of New Reagent For flotation of carnallite, *submitted to Jornal of mineral Engineering*, 2019.
15. **Morteza Sadeghi Naeini, Alireza Javadi**, Study of flotation mechanism of antimony oxide, submitted to *Journal of Hydrometallurgy* 2019.
16. **Alireza Javadi**, Using Nanoparticle in flotation of ultra-fine chalcopryrite, submitted to *Jornal of Advanced Powder Technology* 2019.
17. **Alireza Javadi**, Recycling of cobalt from zinc plants residue, submitted to submitted to *Journal of Hydrometallurgy* 2019.

#### **Conference peer reviewed proceedings**

1. **Alireza Javadi**, A. A. Abdullah Zadeh, using image analysis to determine the freedom degree of Qom Vnarch manganese minerals, Twenty-Seventh Conference Geoscience and thirteenth Conference of Geological Society, 2010.
2. **Alireza Javadi**, A. A. Abdullah Zadeh, a new method in determining the grade garnet of Yazd Hassan Abad skarn, Twenty-Seventh Conference Geoscience and thirteenth Conference of Geological Society, 2010 .
3. **Alireza Javadi**, recovery of bischofite from Salt Lake brine by sodium stearate, Twenty- ninth Conference Geoscience, 2011.
4. Kota Hanumantha Rao, **Alireza Javadi**, Tommy Karlkvist, Anuttam Patra, Annamaria Vilinska, Irina Chernyshova. Revisiting sulphide mineral (bio) processing: a few priorities and directions – Proceedings of XV Balkan Mineral Processing Congress. M. Grigorova (Ed), St. Ivan Rilski, Sofia, 2013, 51-56 pp.
5. **Alireza Javadi**, Kota Hanumantha Rao. A New Insight into Oxidation of Sulphide Minerals – IMPC 2014, 20-24 October 2014, Chile.
6. **Alireza Javadi**, Kota Hanumantha Rao. Sulphide mineral flotation: a new insight into the oxidation mechanisms – invited key-note paper, MPT 2013, 12-14 November 2013, India. 169-182 pp.
7. **Alireza Javadi**, Kota Hanumantha Rao. Sulphide mineral flotation: Formation of hydrogen peroxide by chalcopryrite and pyrite – 32nd national and The 1st International Geosciences Congress, Mineral processing, 16-19 February 2014, Iran.
8. **Alireza Javadi**, Kota Hanumantha Rao. Sulphide mineral flotation: Effect of grinding environment on galena flotation – 32nd national and The 1st International Geosciences Congress, Mineral processing , 16-19 February 2014, Iran.

9. **Alireza Javadi**, Kota Hanumantha Rao. A New Insight into Oxidation of Sulphide Minerals – invited speaker paper, IMEC 2014, 21-24 September 2014, Chile
10. **Alireza Javadi**, Kota Hanumantha Rao. What are the implications in sulphide mineral processing underlying new insights into oxidation mechanisms?, Cairo International Convention Center, El-Nasr Rd, Nasr City, Cairo, 7-8 April 2015, Egypt.
11. **Alireza Javadi**, Kota Hanumantha Rao. Formation of H<sub>2</sub>O<sub>2</sub> by metal sulfides and its effect in sulfide mineral flotation – submitted to IMPC 2016, September 11 -15, Québec City Convention Center
12. **Alireza Javadi**, Kota Hanumantha Rao. A New Insight into Oxidation of Sulphide Minerals – invited speaker paper, IMEC 2014, 21-24 September 2014, Chile
13. **Alireza Javadi**. New Reagents For Controlling Of H<sub>2</sub>O<sub>2</sub> By Metal Sulfide And Its Effect In Sulfide Mineral Flotation, IMPC 2018,
14. **Alireza Javadi**. Investigating the optimal conditions for cobalt leaching of Golestan mine Qamsar, Second National Conference on Materials Engineering, Metallurgy and Mining Iran, Shahid Chamran University of Ahvaz 2019,
15. Reza Eskandari , Ali A. Abdollahzadeh, **Alireza Javadi**, M. Javad Mozaffarpour. Feasibility study of copper ore pre-processing by gravity methods at Midok Copper Complex, Second National Conference on Materials Engineering, Metallurgy and Mining Iran, Shahid Chamran University of Ahvaz 2019,

Referrer
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| <ul style="list-style-type: none"> <li>K. Hanumantha Rao, Professor, Minerals Engineering, Department of Geology and Mineral Resources Engineering, NTNU - Norwegian University of Science and Technology, Trondheim, Norway, <a href="mailto:hanumantha.rao.kota@ntnu.no">hanumantha.rao.kota@ntnu.no</a>.</li> <li>Anna-Carin Larsson, Associate Professor, Division: Chemical Engineering, Department of Civil, Environmental and Natural Resources Engineering Luleå University of Technology, Luleå, Sweden, <a href="mailto:anna-carin.v.larsson@ltu.se">anna-carin.v.larsson@ltu.se</a></li> </ul> |
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