



## Publications Prof. Mauricio Leonardo Torem

### Complete articles published in journals

1. PIMENTEL, AMANDA M. RODRIGUES; QUISPE, PATRICIA REYNOSO; TORRES, RITA J. CABELLO; GONZALES, LORGIO G. VALDIVIEZO; OLIVERA, CARLOS A. CASTAÑEDA; MERMA, Antonio Gutierrez; SANTOS, IRANILDES DANIEL DOS; **TOREM, Mauricio Leonardo**

Kinetic study and thermodynamic equilibrium modeling of the Co(II) and Mn(II) bioadsorption using the *Rhodococcus opacus* strain. REM - INTERNATIONAL ENGINEERING JOURNAL. , v.75, p.137 - 146, 2022.

2. CAMARATE, MARCELO CARNEIRO; MERMA, Antonio Gutierrez; HACHA, RONALD ROJAS; **TOREM, Mauricio Leonardo**

Selective bioflocculation of ultrafine hematite particles from quartz using a biosurfactant extracted from *Candida stellata* yeast. SEPARATION SCIENCE AND TECHNOLOGY. , v.57, p.36 - 47, 2022.

3. MORAN, JOSÉ JONATHAN VALLEJOS; OLIVERA, CARLOS ALBERTO CASTAÑEDA; GONZALEZ, LORGIO VALDIVIEZO; MERMA, ANTONIO G.; **TOREM, Mauricio Leonardo**

Adhesion evaluation of the *Rhodococcus opacus* strain on an apatite surface. REM - INTERNATIONAL ENGINEERING JOURNAL. , v.74, p.369 - 377, 2021.

4. PEREIRA, ANDREZA RAFAELA MORAIS; HACHA, RONALD ROJAS; **TOREM, Maurício Leonardo** ; MERMA, ANTONIO GUTIERREZ; SILVAS, FLÁVIA PC; A, ABHILASH

Direct hematite flotation from an iron ore tailing using an innovative biosurfactant. SEPARATION SCIENCE AND TECHNOLOGY. , v.AB, p.1 - 11, 2021.

5. PUELLES, JHONATAN SOTO; MERMA, ANTONIO GUTIERREZ; OLIVERA, CARLOS ALBERTO CASTAÑEDA; **TOREM, Mauricio Leonardo**

Fundamental bioflotation aspects of hematite using an extracted *Rhodococcus opacus* by-product. REM - INTERNATIONAL ENGINEERING JOURNAL. , v.74, p.353 - 362, 2021.

6. PEREIRA, AYRTON ALEF CASTANHEIRA; OLIVERA, CARLOS ALBERTO CASTAÑEDA; MERMA, Antonio Gutierrez; HACHA, RONALD ROJAS; FERREIRA DOS SANTOS, BRUNNO; **TOREM, Mauricio Leonardo**

Mineral bioflotation optimization: Comparison between artificial neural networks and response surface methodology. MINERALS ENGINEERING. , v.169, p.106983 - 15, 2021.

7. R. SIMÕES, CAROLINA; R. HACHA, RONALD; G. MERMA, ANTONIO; **L. TOREM, MAURITIUS**

On the Recovery of Hematite from an Iron Ore Fine Fraction by Electroflotation Using a Biosurfactant. Minerals. , v.10, p.1057 - 1570, 2020.

8. MERMA, ANTONIO G.; SANTOS, BRUNNO F.; REGO, ARTUR SC; HACHA, RONALD R.; **TOREM, MAURICIO L.**

Treatment of oily wastewater from mining industry using electrocoagulation: Fundamentals and Process Optimization. Journal of Materials Research and Technology-JMR&T. , v.018, p.01 - 19, 2020.

9. GARCÍA-LEIVA, BRUNO; TEIXEIRA, Luiz Alberto Cesar; **Torem, Mauricio Leonardo**

Degradation of xanthate in waters by hydrogen peroxide, fenton and simulated solar photo-fenton processes. Journal of Materials Research and Technology-JMR&T. , v.934, p.01 - 09, 2019.

10. OLIVERA, ALBERTO CASTAÑEDA; MERMA, Antonio Gutierrez; **TOREM, Mauricio Leonardo**  
Evaluation of hematite and quartz flotation kinetics using surfactant produced by Rhodococcus erythropolis as bioreagent. REM - INTERNATIONAL ENGINEERING JOURNAL. , v.72, p.655 - 659, 2019.
11. MERMA, Antonio Gutiérrez; OLIVERA, CARLOS ALBERTO CASTAÑEDA; HACHA, RONALD ROJAS; **TOREM, Maurício Leonardo** ; SANTOS, BRUNNO FERREIRA DOS  
Optimization of hematite and quartz BIOFLOTATION by AN artificial neural network (ANN). Journal of Materials Research and Technology-JMR&T. , v.8, p.3076 - 3087, 2019.
12. Ribeiro T; **Torem, Mauricio Leonardo** ; dos Santos, BF; MERMA, Antonio Gutierrez  
Removal of boron from mining wastewaters by electrocoagulation method: Modeling experimental data using artificial neural networks. MINERALS ENGINEERING. , v.131, p.8 - 13, 2019.
13. LOPES, DA; **LEONARDO, TOREM** ; DE, ANDRADE  
Technological characterization and utilization of recycled aggregate in the fine fraction in substitution to the fine natural aggregate for concrete production. Reciklaža i održivi razvoj. , v.12, p.37 - 42, 2019.
14. MERMA, Antonio Gutiérrez; OLIVERA, CAC; **TOREM, MAURÍCIO L.** ; dos Santos, BF  
Comparison Study of Hematite Bioflotation by R. erythropolis and its Biosurfactant: Experiments and Neural Network Modeling. CHEMICAL ENGINEERING TRANSACTIONS. , v.65, p.100 - 106, 2018.
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17. PRATIMA MESHARAM; GHOSH, ANIRBAN; RAMAMURTHY, YANAMANDRA; PANDEY, BANSHI DHAR; ABHILASH; **Torem, Mauricio Leonardo**  
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18. MERMA, Antonio Gutiérrez; HACHA, RONALD ROJAS; **TOREM, Mauricio Leonardo**  
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19. OLIVERA, CARLOS A. CASTAÑEDA; MERMA, Antonio Gutierrez; PUELLES, JHONATAN G. SOTO; **TOREM, Mauricio Leonardo**  
On the fundamental aspects of hematite bioflotation using a Gram positive strain. MINERALS ENGINEERING. , v.106, p.55 - 63, 2017.
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Fundamental aspects of hematite flotation using the bacterial strain Rhodococcus ruber as bioreagent. Minerals Engineering. , v.75, p.63 - 69, 2015.
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25. GONZALES, LORGIO GILBERTO VALDIVIEZO; PINO, GABRIELA ALEJANDRA HUAMÁN; **TOREM, Maurício Leonardo**  
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26. Veneu, Diego M.; **TOREM, MAURICIO L.** ; Pino, Gabriela AH  
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31. BERTOLINO, Luiz Carlos; **Torem, Maurício Lenardo** ; SCORZELLI, Rosa Bernstein; ROSSI, Alexandre Malta  
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Influence of iron on kaolin whiteness: An electron paramagnetic resonance study. Applied Clay Science (Print). , p.170 - 175, 2010.

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## Published book chapters

1. PERES, Antônio Eduardo Clark; CHAVES, Arthur Pinto; LINS, FAF; **TOREM, ML**  
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## organized books

1. LUZ, Adão Benvindo da; SOARES, PSM; TOREM, ML; TRINDADE, Roberto de Barros Emery  
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## Papers published in event annals (complete)

1. Cortes, M; HACHA, RONALD R.; R. SIMÕES, CAROLINA; GUTIÉRREZ MERMA, ANTONIO; **Torem, Mauricio Lenardo**  
CHARACTERIZATION OF A BIOSPUMANT OBTAINED FROM THE BACTERIA RHODOCOCCUS OPACUS  
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2. R. SIMÕES, CAROLINA; Red HR; GUTIÉRREZ MERMA, ANTONIO; **LEONARDO, TOREM**  
ELECTROFLOATATION OF THE FINE FRACTION OF AN ITABYRITIC IRON ORE WITH THE USE OF A BIOSURFACTANT In: XXIX National Meeting of Ore Treatment and Extractive Metallurgy - ENTMME 2022, 2022, Armação de Búzios.  
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3. Camarate, MC; MERMA, Antonio Gutierrez; **L. TOREM, MAURITIUS**  
ID: 426 Selective Bioflocculation of Ultrafine Hematite Particles using the Yeast Candida stellata In: 2021 International Conference on Resource Sustainability (2020), 2021, Dublin - on line.  
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4. R. SIMÕES, CAROLINA; HACHA, RONALD R.; CAMARATE, MARCELO CARNEIRO; **L. TOREM, MAURITIUS**  
ID: 428 Electroflotation of iron ore fines using biosurfactant In: 2021 International Conference on Resource Sustainability (2020), 2021, Dblin On line.  
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ID: 597 Using Tanflos SG to Remove Fine and Ultra-Fine Iron Mineral Particles from Water In: 2021 International Conference on Resource Sustainability (2020), 2021, Dublin - on line.  
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## technical production

### Technological products

### 1. **Torem, Maurício Lenardo** ; Red HR; MERMA, Antonio Gutierrez **Binary Partridge-Smith Electrolytic Cell** , 2017

### 2. **Torem, Mauricio Leonardo** ; MERMA, ANTONIO G. **Binary Electroflotation Cell** , 2013

### 3. **TOREM, Maurício Leonardo** ; MERMA, Antonio Gutierrez **Flotation Apparatus** , 2011

### 4. **TOREM, Maurício Leonardo** ; Borges, E; Santos, ID **Use of microbial strain for metal removal** , 2011

### 5. **TOREM, Maurício Leonardo** ; DUTRA, Achilles Junqueira Bourdot **Modified Hallimond Tube for Electroflotation of Fine and Ultrafine Particles** , 2009

### 6. CASQUEIRA, Rui de Góes; TOREM, ML; KOHLER, Helio Marques

**Electroflotation and Electrocoagulation Cell , 2005**

**technical works**

**1. TOREM, Maurício Leonardo**

**Technical visit - University of Mining and Geology - St Ivan Rilski , 2013**

**2. TOREM, Maurício Leonardo ; Ipsen,H**

**Technical visit to the University of Vienna - Department of Chemistry of Materials and Inorganic Chemistry , 2009**

**3. TOREM, ML**

**Reviewer for the evaluation of higher education courses in the Guia do Estudante (GE), by Editora Abril, published in the edition GE Melhores Universidades 2007 , 2007**

**4. TOREM, ML; BRANDÃO, Paulo Roberto Gomes**

**Member of the CAPES Evaluation Committee for the postgraduate course in mineral engineering at the Polytechnic School of the University of São Paulo (USP) - MINING ENGINEERING PROGRAM , 2000**

**5. TOREM, ML; SAMPAIO, CH**

**Member of the CAPES Evaluation Commission for the graduate course in mineral engineering at UFOP , 2000**

**6. TOREM, ML; NUNES, GC; ALE, RM**

**Member of the External Evaluation Commission of the graduation course in Metallurgical Engineering at the Federal University of Minas Gerais , 1999**

**7. TOREM, ML**

**Visiting Professor-Scientific Cooperation CAPES - DAAD - University of Regensburg , 1994**

**8. TOREM, ML**

**Research Fellow - University of California / Berkeley - Technical Internship - RHAE/CNPq Program - Production of Ceramic Powders, Aqueous Processing of Materials , 1994**

**Other technical productions**

**1. TOREM, MAURICIO L.**

**Specialization Course in Public Policies and Government Management in the Energy and Mineral Sectors for the Ministry of Mines and Energy: GMT12 – Mineral Sector: Economy, Management and Mineral Technology , 2018. (Specialization, Short course taught)**

**2. TOREM, Maurício Leonardo**

**Flotation and Bioreagents , 2011. (Research report)**

**3. TOREM, Maurício Leonardo**

**Mineral Resources - Market, Processing and Applications , 2011. (Development of didactic or instructional material)**

**4. TOREM, Maurício Leonardo ; MERMA, Antonio Gutierrez**

**Mineral and Environmental Biotechnology** , 2009. (Development of didactic or instructional material)

#### 5. TOREM, ML

**External Adviser of the Mineral Technology Series-CETEM** , 2000. (Another technical production)

## Guidelines and Supervision

### Guidelines and supervision

#### Completed orientations and supervisions

##### Master's dissertations: main supervisor

1. Ian Monteiro Werner. **Use of Mixtures of Biosurfactants Extracted from Rhodococcus opacus and Rhodococcus erythropolis Bacteria in Direct Flotation of Iron Ore Tailings** . 2022. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
2. Edith Priscila Portillo Miranda. **Hematite flotation using mixed bioreagent systems extracted from Rhodococcus opacus and Rhocococcus erythropolis** . 2021. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro
3. Carolina Rossini Simões. **Electroflotation of iron ore fines and ultrafines using a biosurfactant extracted from the bacterium Rhodococcus opacus** . 2020. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ
4. Marcelo Carneiro Camarate. **Selective bioflocculation of ultrafine hematite contained in iron ore tailings using Candida Stellata yeast** . 2019. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro
5. Andreza Rafaela Morais Pereira. **Flotation of hematite from iron ore tailings using a biosurfactant from the bacterium Rhodococcus Opacus** . 2019. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: VALE
6. Luana Caroline da Silveira Nascimento. **Fundamentals of Neodymium Sorption in Palygorskite: Thermodynamic and Kinetic Aspects** . 2019. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
7. Maurício Cortes. **Morphology of Flotation Foams using Bioreagents and their Metabolic Products** . 2018. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
8. Thiago da Silva Ribeiro. **Fundamental aspects of the removal of boron contained in aqueous effluents by electrocoagulation** . 2017. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ
9. Lisa Marinho do Rosário. **Apatite bioflotation: Comparative analysis between the use of the microbial strain Rhodococcus erythropolis and its biosurfactant** . 2017. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: VALE
10. Vinicius de Jesus Townsend. **Removal of Nickel and Cobalt Contained in Aqueous Media: Comparative Study of the Biosorption/Flotation Process with Rhodococcus Erythtopolis and**

**Biosorption in Modified Banana Peel** . 2017. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

11. Vanessa Figueiredo da Silva Coelho. **Bioflotation of dolomite and calcite using the strain Rhodococcus opacus as bioreagent** . 2016. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

12. Elivone Lopes da Silva. **Development of a processing flowchart for the production of mineral aggregates and their technological applications** . 2016. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

13. Jhonatan Gerardo Soto Puelles. **Hematite flotation using a crude biosurfactant extracted from Rhodococcus opacus** . 2016. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ

14. Priscila dos Santos Gonçalves. **Biosorption of Toluene in the presence of the Rhodococcus Opacus strain** . 2015. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

15. Carlos Alberto Castaneda Olvera. **Hematite bioflotation using the bacterium Rhodococcus Erythropolis** . 2014. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

16. Elayne Rohem Peçanha. **Selective Bioflotation of Hematite versus Quartz: Calculation of Bacillus Subtilis Surface and Adhesion Energy** . 2014. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

17. Clarissa Moschiar Fontelles. **Study of the Electrokinetic and Infrared Field Spectroscopy Properties of the Rhodococcus ruber Strain in the Presence of Metallic Cations** . 2014. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

18. Leslie Yasmin Lopez Olivares. **Fundamental aspects of hematite flotation using the bacterial strain Rhodococcus ruber as bioreagent** . 2014. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

19. Jose Jonathan Vallejos Moran. **Fundamental Aspects of the Adhesion of the Rhodococcus Opacus Strain to the Apatite Surface** . 2012. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

20. Edson Borges da Silva Neto. **Biosorption of Co(II) and Ni(II) contained in Aqueous Solutions using the Rhodococcus Ruber Strain** . 2011. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

21. Amanda Mauro Rodrigues Pimentel. **Removal of Co(II) and Mn(II) from Aqueous Solutions using R. Opacus Biomass** . 2011. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

22. Jean da Silva Abbud. **Biouptake of Hg by the Bacteria Rhodococcus Opacus** . 2010. Dissertation

(Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development

23. Ronald Rojas Hacha. **Mineralogical Characterization of Gold Ore from Rio Paracatu Mineração (RPM), aiming at the Determination of Minerals Containing Titanium** . 2010. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

24. Abiatar Picoli Cardoso. **Removal of lead and manganese by biosorption using Cocos Nucifera biomass** . 2010. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development

25. Leonardo Martins da Silva. **Removal of Cu and Co Contained in Aqueous Solutions by Biosorption** . 2010. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

26. Diego Macedo Veneu. **Treatment of Aqueous Solutions Containing Zinc, Copper and Cadmium by Biosorption/Bioflotation Process** . 2010. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ

27. Antonio Gutierrez Merma. **Electrocoagulation Applied to Oil-Containing Aqueous Media** . 2008. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

28. Javier Enrique Basurco Cayllahua. **Biosorptive Flotation of Nickel and Aluminum using the Rhodococcus opacus strain** . 2008. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ

29. Lorgio Gilberto Valdiviezo Gonzales. **The effect of different metallic electrodes on the electrocoagulation of oily effluents** . 2008. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

30. Tatiana Gisset Pineda Vasquez. **Evaluation of Cd and Zn Removal from Aqueous Solution by Biosorption and Bioflotation with Rhodococcus Opacus** . 2005. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

31. Ricardo Frederico Araujo Lanzellotti. **Development of Mineral Processing Flowcharts Applied to the Recycling of Construction Waste** . 2005. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development

32. Omar Alfredo Juarez Soto. **Removal of Manganese II Contained in Liquid Effluents through Sorption on Palygorskite and Coal Ash** . 2005. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development

33. Belenia Yaneth Medina Bueno. **Kinetic Aspects of Chromium III Removal by Flotation of Precipitates** . 2003. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development

34. Sara Virginia Chumpitaz Bravo. **Study of Beneficiation of a Low Grade Gold Sulfide Ore** . 2002. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development



35. Natascha Constant de Almeida dos Santos Braga. **Removal of Cr III by Flotation of Precipitates** . 2002. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
36. Ana Claudia Campos Pacheco. **Removal of As 5+ from Very Dilute Solutions by Colloid Flotation** . 2000. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
37. VÂNIA MARIA MOURA DE SOUZA. **Influence of Mineral Fillers on Ink Removal by Flotation - A Contribution to the Study of Paper Recycling** . 1999. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
38. Erick Portela Pettendorfer. **The Effect of Dispersants on the Rheology of Pulps and Kaolin for the Paper Industry** . 1999. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
39. Gustavo Vieira Macedo. **Removal of Chromium III and Chromium VI by Ionic and Precipitated Flotation** . 1999. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
40. Priscilla Lopes Florido. **PET/PVC Separation By Flotation** . 1999. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
41. Flávio Santos Correa. **Characterization of Sludge/Slag from Primary Aluminum Foundries** . 1998. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro
42. Rodolfo Maia Rangel. **Ionic Flotation of Aurocyanide Complexes** . 1996. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
43. Isabella Bernstein Scorzelli. **Contribution to the Study of Separation of Xenotime and Zirconite by Flotation** . 1994. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
44. Ana Paula Almeida de Oliveira. **Removal of Press Inks Using Flotation Techniques** . 1993. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

#### **Master's dissertations: co-supervisor**

1. Gabriela Alejandra Huaman Pino. **Biosorption of Heavy Metals in Coconut Husk Powder (COCOS NUCIFERA)** . 2005. Dissertation (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

#### **Doctoral theses: main supervisor**

1. Thiago da Silva Ribeiro. **Machine Learning for Failure Detection in Bakery Industrial Effluents Treatment by Electrocoagulation** . 2022. Thesis (Chemical, Materials and Environmental Processes Engineering) - Pontifical Catholic University of Rio de Janeiro RJ State Survey

2. Elivone Lopes da Silva. **Mineral bioprocessing of the fine and ultrafine fraction of an iron ore by dissolved air flotation** . 2021. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
3. Carlos Alberto Castaneda Olivera. **Flotation of the hematite-quartz system using the soluble biosurfactant produced by Rhodococcus erythropolis** . 2018. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
4. Ronald Rojas Hacha. **Electroflotation of fine hematite particles in a modified Partridge-Smith cell using Rhodococcus opacus as bioreagent** . 2016. Thesis (Chemical, Materials and Environmental Processes Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
5. Antonio Gutierrez Merma. **Fundamental Aspects of Apatite-Quartz Bioflotation Using the Rhodococcus Opacus Bioreagent** . 2012. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ
6. Lorgio Gilberto Valdiviezo Gonzales. **Electroflotation of cassiterite and quartz fines using the Rhodococcus opacus strain as bioreagent** . 2012. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
7. Gabriela Alejandra Huamán Pino. **Cadmium biosorption by Cocos Nucifera: batch and continuous studies** . 2010. Thesis (Doctorate in Materials and Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
8. Rodolfo Maia Rangel. **Modeling of Electrocoagulation Applied to the Treatment of Oily Waters from Extractive Industries** . 2008. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
9. Ana Elisa Casas Botero. **Bioflotation of Magnesite, Calcite and Barite using Rhodococcus opacus as bioreagent** . 2007. Thesis (Doctorate in Materials and Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
10. Belenia Yaneth Medina Bueno. **Removal of Pb, Cr and Cu by Combined Biosorption/Bioflotation Process using the Rhodococcus Opacus Strain** . 2007. Thesis (Doctorate in Materials and Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
11. Fabiola Oliveira da Cunha. **Study of the Rheology of Kaolin Pulps for the Paper Industry Based on Kaolin from the Prado Region** . 2004. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
12. Rui de Góes Casqueira. **Removal of Cadmium and Zinc by Electroflotation and Electrocoagulation** . 2004. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ
13. Luciana Maria Souza de Mesquita. **Bioflotation of Hematite and Quartz - A selectivity study** . 2000. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
14. Luiz Carlos Bertolino. **Mineralogical and Technological Characterization of Kaolin from the Prado-BA Region, Aiming at its Use in the Paper Industry** . 2000. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council

for Scientific and Technological Development

15. Isabella Bernstein Scorzelli. **Removal of Cadmium and Zinc from Very Dilute Solutions by Ionic Flotation** . 1999. Thesis (Chemical, Materials and Environmental Processes Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

16. Ana Paula Almeida de Oliveira. **Influence of Physical-Chemical Factors on the Production of Zirconia Powders** . 1997. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel

#### **Doctoral theses: co-supervisor**

1. Ysrael Marrero Vera. **SIMULATION OF ATRAZIN DEGRADATION WITH IN SITU ELECTROCHEMICALLY GENERATED OZONE FOR GROUNDWATER REMEDIATION** . 2008. Thesis (Chemical Engineering, Materials and Environmental Processes) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

#### **Completion monographs of improvement/specialization course**

1. Larissa Cândida dos Santos. **Plastic Recycling - Applications and Flowcharts** . 2016. Monograph (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro

#### **Undergraduate Course Completion Works**

1. Pedro Schulz and Silva Rangel. **Study of bubble size distribution in a three-phase flotation system** . 2021. Course (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro

2. Ian Monteiro Werner. **Dissolved Air Bioflotation Applied to Iron Ore Fines – Case Study** . 2019. Course (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro

3. Fernanda Miguel de Melo. **Uptake/Removal of Metals contained in aqueous media through biomass** . 2017. Course (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro

4. Taíssa Felisberto Rosado. **Electroflotation of Hematite: Fundamental Aspects** . 2017. Course (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro

5. Antonio Fraiha Azevedo. **Environmental Biotechnology - Case Study for Cobalt** . 2014. Course (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro

6. Victor Ramos Costa. **Environmental Biotechnology: Use of Bioreagents to Capture Metals Contained in Aqueous Solutions** . 2013. Course (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro

7. Antonio Fraiha Azevedo. **Treatment of Effluents by Biosorptive Process** . 2013. Course (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro

8. JAQUELINE CAMACHO DE SOUZA. **RECYCLING OF RUBBLE GENERATED IN CIVIL CONSTRUCTION** . 2011. Course (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro

9. Alcindo OJ Junior. **Production of Ceramic Powders by Precipitation** . 1996. Course (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro

10. Ralpho Miranda Cardoso. **Beryl Flotation in Modified Hallimond Tube** . 1988. Course (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro

11. Alberto Maia Junior. **Evaluation of the Zeta Potential of the Mineral Beryl in the Absence/Presence of Metallic Cations** . 1987. Course (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro
12. Mauro Borges. **Electrocrystallization of Manganese in Sulfuric Medium** . 1979. Course (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro
13. Fernando Serra. **Electrolysis of Manganese in Sulfuric Medium** . 1979. Course (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro
14. Fernando Godinho. **Electrolysis of Manganese in Sulfuric Medium** . 1978. Course (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro
15. Edward Maureel. **Electrolysis of Manganese-Effect of Some Additives** . 1978. Course (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro

### Scientific research

1. Patricia Pereira Lima. **Biosorptive Flotation of Metals Applied to Contaminated Aqueous Media** . 2021. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro
2. Raphael Freitas Pellerin de Araujo. **Biosorptive Flotation for Decontamination of Aqueous Media** . 2021. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro
3. Pedro Schulz and Silva Rangel. **Bioflotation of Iron Ore Fines in a Binary Electroflotation Cell** . 2020. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development
4. Caroline Dias Grossi. **Biosorption and Bioflotation Applied to Water Treatment - Nanometric Aspects** . 2018. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development
5. Ana Luiza Bandeira de Mello de Albuquerque Campos. **Biosorption and Bioflotation Applied to Water Treatment** . 2017. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro
6. Júlia do Nascimento Pereira Nogueira. **Biosorption and Bioflotation Applied to Water Treatment** . 2017. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro
7. Maria Isabel de Alencar Sampaio. **Biosorption and Bioflotation Applied to Water Treatment - Nanometric Aspects** . 2017. Scientific initiation (Environmental and Sanitary Engineering) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development
8. Bruna Fontenelle Cargnin. **Mineral Market and Prospective Scenarios** . 2017. Scientific Initiation (Production Engineering) - Pontifical Catholic University of Rio de Janeiro
9. Rodrigo Pereira de Moraes Lima. **Apatite Mineral Bioprocessing** . 2016. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro
10. Rafaela Fonseca de Carvalho. **Biosorption and Bioflotation Applied to Water Treatment - Nanometric Aspects** . 2016. Scientific Initiation (Engineering in Nanotechnology) - Pontifical Catholic University of Rio de Janeiro  
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11. Thaís Caldeira de Alvarenga Montenegro. **Biosorptive Flotation of Metals Contained in Aqueous Media** . 2015. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro
12. Flávia de Miranda Gonçalves. **Environmental Biotechnology: Biosorption and Bioflotation Studies** . 2014. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro  
Inst. sponsor: National Council for Scientific and Technological Development
13. André Freire Norberto. **TREATMENT OF EFFLUENTS FROM THE EXTRACTIVE INDUSTRIES BY**

**BIOSORTIVE PROCESS USING BIOMASS Rhodococcus ruber** . 2013. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ

14. Thiago Lima Martins. **Fundamental Aspects of Biosorption of Metals** . 2012. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

15. Glaucia Teixeira da Silva. **Electroflotation of Ore Fines Using Biocollectors** . 2012. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

16. Alessandra da Gloria Pereira. **TREATMENT OF EFFLUENTS FROM THE EXTRACTIVE INDUSTRIES BY BIOSORTIVE PROCESS USING BIOMASS Rhodococcus ruber** . 2012. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ

17. Gabriela Rezende dos Santos. **Biosorption of Metals Contained in Aqueous Media of the Extractive Industry** . 2011. Scientific Initiation (Chemical Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

18. Antonio Fraiha Azevedo. **Water Treatment by Biosorption** . 2011. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

19. Victor Ramos Costa. **Biosorptive systems for capturing metals contained in aqueous solutions** . 2010. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

20. Mariana Soares Knust. **Biosorption of Heavy Metals Contained in Aqueous Media** . 2009. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

21. Flavio Fernandes Molina. **Biosorption Applied to the Removal of Heavy Metals from Liquid Effluents from Extractive Industries** . 2008. Scientific Initiation (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

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### **Postdoctoral supervision**

1. Antonio Gutierrez Merma. 2021. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: VALE
2. Ronald Rojas Hacha. 2020. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: VALE
3. Antonio Gutierrez Merma. 2019. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Coordination for the Improvement of Higher Education Personnel
4. Ronald Rojas Hacha. 2017. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
5. Antonio Gutierrez Merma. 2015. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development
6. Gabriela Alejandra Huamán Pino. 2014. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: Carlos Chagas Filho Research Support Foundation of the State of RJ
7. Iranildes Daniel dos Santos. 2011. Postdoctoral supervision - Pontifical Catholic University of Rio de

Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

8. Gabriela Alejandra Huamán Pino. 2009. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

9. Belenia Yaneth Medina Bueno. 2008. Postdoctoral supervision - Pontifical Catholic University of Rio de Janeiro<br/>Inst. sponsor: National Council for Scientific and Technological Development

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2. Jayme Bardavid. **Mineral Technology and Extractive Metallurgy** . 2013. Orientation of another nature (Metallurgical Engineering) - Pontifical Catholic University of Rio de Janeiro

3. Caroline de Almeida Oliveira. **Biotechnology Applied to the Treatment of Effluents Containing Heavy Metals** . 2012. Orientation of another nature (Environmental and Sanitary Engineering) - Centro Universitário Geraldo di Biase

4. Guilherme Dias Bernardino de Oliveira. **Use of Mineral Waste** . 2011. Orientation of another nature (Environmental Engineering) - Pontifical Catholic University of Rio de Janeiro

5. Jorge Luiz Meyrelles Junior. **Mineral Resources, Mineral Technology and the Environment** . 2011. Orientation of another nature (materials engineering) - Pontifical Catholic University of Rio de Janeiro

6. Vanessa Figueiredo da Silva. **Treatment of Aqueous Effluents by Flotation** . 2011. Orientation of another nature (Environmental and Sanitary Engineering) - Centro Universitário Geraldo di Biase

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#### **Master's dissertations: co-supervisor**

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