

## **Curriculum Vitae**

### **PAUL CHIRITA**

Associate Professor, University of Craiova, Department of Chemistry, Calea Bucuresti 107I,  
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### **PERSONAL DATA**

Birth date: March 30, 1970

Birth place: Strejesti-Olt, Romania

### **EDUCATION**

B.S. Chemistry (1995) University "A.I. Cuza" Iasi, Iasi, Romania

M.S. Chemistry (1996) University "A.I. Cuza" Iasi, Iasi, Romania

Ph.D. Chemistry (2004) University "A.I. Cuza" Iasi, Iasi, Romania (2004). Thesis: "The study of chemical processes of the degradation of essentials components of Fe-S system"  
Supervisor: Prof. dr. Ioan Berdan

### **PROFESSIONAL EXPERIENCE AND APPOINTMENTS**

Teaching Assistant, Chemistry (10/1996-02/1999): Department of Mineralogy and Geochemistry, University "A.I. Cuza" Iasi, Iasi, Romania

Teaching Assistant, Inorganic Chemistry (03/1999-02/2004): Department of Inorganic and Analytical Chemistry, University of Craiova, Craiova, Romania

Lecturer, Inorganic Chemistry (03/2004-09/2007): Department of Inorganic and Analytical Chemistry, University of Craiova, Craiova, Romania

Associate Professor, Inorganic Chemistry (10/2007-present): Department of Chemistry, University of Craiova, Craiova, Romania

### **PROFESSIONAL ACTIVITIES**

Editor Assistant (2002-2005): Annals of the University of Craiova. The Chemistry Series

Reviewer of manuscripts (2006-present) for: Journal of Colloid and Interface Science; Journal of Loss Prevention in the Process Industries; Applied Geochemistry; Industrial & Engineering Chemistry Research; Combinatorial Chemistry & High Throughput Screening, Journal of Environmental Quality, Chemical Engineering Journal and Annals of the University of Craiova. The Chemistry Series

Reviewer of proposals submitted (2007-present) to: the National University Research Council (Romania), AMCSIT Politehnica (Romania), Bulgarian National Science Fund (Bulgaria) and National Authority for Scientific Research (Romania)

Invited lecture (2009) Ecole Normale Supérieure, Paris

## **FUNDING ID**

### **Former**

Project Manager: The National University Research Council (AT) CNCSIS Code 483 (2002-2004) “Study of the factors influencing the degradation process of pyrite and pyrrhotite”

Project Manager: Rumanian Minister of Education (CEEX Program) Project Code 37 (2005-2007) “Kinetic study of the oxidative dissolution of iron(II) monosulfide in acidic media”

Project Manager: IFA(Romania)-CEA(France) Bilateral Program, Project No. C1-04 (2010-2013) “Electrochemical study of iron monosulfide dissolution”

### **Present**

Project Manager: Executive Agency for Higher Education, Research, Development and Innovation Funding PARTENERSHIPS Project No. 51/2012 (2012-2016) “The study of the effect of organic complexing agents of Fe(III) or Fe(II) on iron monosulfide oxidative”

## **PUBLICATIONS**

- 3 books in Romanian Publishing Houses
- 40 publications in ISI journals
- 21 publications in other journals
- 35 presentations to national or international conferences

**TOTAL NUMBER OF CITATIONS (WITHOUT SELF-CITATIONS) - 134**

**HIRSCH INDEX – 10**

## LIST OF PUBLISHED BOOKS

1. N. Muresan, M. Mureseanu, A. Reiss, **P. Chirita**, *Chimia metalelor*, Editura Agora, Craiova, 2000. (ISBN 973-8046-21).
2. **P. Chirita**, *Chimie anorganica. Nemetale*, Editura Universitaria, Craiova, 2006. (ISBN 973-742-436-0 978-973-742-436-5)
3. **P. Chirita**, *Nemetale. Aspecte practice si teorie*, Editura Sitech, Craiova, 2016. (ISBN 978-606-11-5271-1)

## LIST OF PUBLICATIONS IN JOURNALS (ISI Thomson Reuters)

| No | Publication                                                                                                                                                                                                                                                 | Quartile in Category ( ISI ) / 2014 | Impact Factor / 2014 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|
| 1  | <b>P. Chirita</b> , M. Preda, O. Rusu, A. Samide, <i>Polysulphide ions part played in the pyrite, FeS<sub>2</sub> formation reaction</i> , <b>Revista de Chimie</b> , 52; <b>2001</b> : 605-606.<br>ISSN: 0034-7752                                         |                                     | 0.810                |
| 2  | O. Rusu, M. Preda, A. Samide, <b>P. Chirita</b> , <i>New complex combinations of Bi(III) with complex anions of Cu(III). Analytical applications</i> , <b>Revista de Chimie</b> , 53; <b>2002</b> : 247-250.<br>ISSN: 0034-7752                             |                                     | 0.810                |
| 3  | <b>P. Chirita</b> , <i>Kinetics of aqueous pyrite oxidation by potassium dichromate - An experimental study</i> , <b>Turkish Journal of Chemistry</b> , 27; <b>2003</b> : 111-118.<br>ISSN: 1300-0527                                                       |                                     | 1.117                |
| 4  | <b>P. Chirita</b> , A. Samide, O. Rusu, M. Preda, <i>Investigations on the oxidative degradation of pyrite with hydrogen peroxide in phosphate medium</i> , <b>Revista de Chimie</b> , 54; <b>2003</b> : 950-953.<br>ISSN: 0034-7752                        |                                     | 0.810                |
| 5  | O. Rusu, A. Samide, <b>P. Chirita</b> , M. Baniceru, M. Preda, <i>A New Complex Combination of Bi(III) Utilized as Stationary Phase in Gas Chromatography</i> , <b>Journal of Indian Chemical Society</b> , 81; <b>2004</b> : 402-405.<br>ISSN: 0019-4522   |                                     | 0.173                |
| 6  | <b>P. Chirita</b> , A. Samide, O. Rusu, M. Preda, I. Berdan, <i>Studies concerning the behavior of hexagonal pyrrhothine during development in acid environment</i> , <b>Revista de Chimie</b> , 55; <b>2004</b> : 227-229.<br>ISSN: 0034-7752              |                                     | 0.810                |
| 7  | A. Samide, <b>P. Chirita</b> , O. Rusu, M. Preda, <i>The effect of the CO<sub>3</sub><sup>2-</sup> anion on the corrosion of carbon steel in an ammonium chloride solution</i> , <b>Revista de Chimie</b> , 55; <b>2004</b> : 1022-1024.<br>ISSN: 0034-7752 |                                     | 0.810                |
| 8  | <b>P. Chirita</b> , I. Berdan, <i>Study on the non-oxidative dissolution mechanism of the iron(II) sulfide with hexagonal structure in acid media</i> , <b>Revista de Chimie</b> , 56; <b>2005</b> : 477-481.<br>ISSN: 0034-7752                            |                                     | 0.810                |
| 9  | <b>P. Chirita</b> , M. Descostes, <i>Anoxic dissolution of troilite in acidic media</i> , <b>Journal of Colloid Interface Science</b> , 294; <b>2006</b> : 376-384.<br>ISSN: 0021-9797                                                                      | Q2                                  | 3.368                |
| 10 | <b>P. Chirita</b> , M. Descostes, <i>Troilite oxidation by hydrogen peroxide</i> , <b>Journal of Colloid Interface Science</b> , 299; <b>2006</b> : 260-269.<br>ISSN: 0021-9797                                                                             | Q2                                  | 3.368                |

|    |                                                                                                                                                                                                                                                                                                      |    |       |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|
| 11 | <b>P. Chirita</b> , <i>A kinetic study of hydrogen peroxide decomposition in presence of pyrite</i> , <b>Chemical and Biochemical Engineering Quarterly</b> , 21(3); <b>2007</b> : 257–264.<br>ISSN: 0352-9568                                                                                       |    | 0.802 |
| 12 | <b>P. Chirita</b> , N. Cioatera, A. Dobritescu, D. Stumbea, I. Berdan, <i>Study of FeS in aqueous medium</i> , <b>Revista de Chimie</b> , 58(3); <b>2007</b> : 288-292.<br>ISSN: 0034-7752                                                                                                           |    | 0.810 |
| 13 | <b>P. Chirita</b> , M. Descostes, M.L. Schlegel, <i>Pyrrhotite oxidation in weakly acidic solutions</i> , <b>Geochimica et Cosmochimica Acta</b> , 71(15); <b>2007</b> : A171-A171. (meeting abstract)<br>ISSN: 0016-7037                                                                            | Q1 | 4.331 |
| 14 | <b>P. Chirita</b> , M. Descostes, M.L. Schlegel, <i>Oxidation of FeS by oxygen-bearing acidic solutions</i> , <b>Journal of Colloid Interface Science</b> , 321; <b>2008</b> : 84-95.<br>ISSN: 0021-9797                                                                                             | Q2 | 3.368 |
| 15 | <b>P. Chirita</b> , A. Samide, A. Ciuciu, M. Descostes, M.L. Schlegel, <i>Electrochemical study of FeS corrosion in acid solutions in the presence of benzothiazolic compounds</i> , <b>Geochimica et Cosmochimica Acta</b> , 73(13); <b>2009</b> : A220-A220. (meeting abstract)<br>ISSN: 0016-7037 | Q1 | 4.331 |
| 16 | <b>P. Chirita</b> , <i>Hydrogen peroxide decomposition by pyrite in the presence of Fe(III)-ligands</i> , <b>Chemical and Biochemical Engineering Quarterly</b> , 23(3); <b>2009</b> : 259-265.<br>ISSN: 0352-9568                                                                                   |    | 0.802 |
| 17 | <b>P. Chirita</b> , <i>Iron monosulfide (FeS) oxidation by dissolved oxygen: Characteristics of the product layer</i> , <b>Surface and Interface Analysis</b> , 41; <b>2009</b> : 405-411.<br>ISSN: 0142-2421                                                                                        |    | 1.245 |
| 18 | <b>P. Chirita</b> , <i>Effect of ionic strength on the kinetics of pyrite oxidation</i> , <b>Geochimica et Cosmochimica Acta</b> , 74(12); <b>2010</b> : A176-A176. (meeting abstract)<br>ISSN: 0016-7037                                                                                            | Q1 | 4.331 |
| 19 | <b>P. Chirita</b> , M.L. Schlegel, <i>Oxidation of FeS by <math>Fe^{3+}_{(aq)}</math></i> , <b>Mineralogical Magazine</b> , 75(3); <b>2011</b> : 667-667. (meeting abstract)<br>ISSN: 0026-461X                                                                                                      | Q2 | 2.026 |
| 20 | <b>P. Chirita</b> , M.L. Schlegel, <i>Reaction of FeS with Fe(III)-bearing acidic solutions</i> , <b>Chemical Geology</b> , 334; <b>2012</b> : 131-138.<br>ISSN: 0009-2541                                                                                                                           | Q1 | 3.524 |
| 21 | <b>P. Chirita</b> , M.L. Schlegel, C.A. Constantin, <i>Electrochemical study of pyrite oxidation in oxygen-bearing solutions</i> , <b>Mineralogical Magazine</b> , 76(6); <b>2012</b> : 1574-1574. (meeting abstract)<br>ISSN: 0026-461X                                                             | Q2 | 2.026 |
| 22 | C.A. Constantin, <b>P. Chirita</b> (corresponding author), <i>Oxidative dissolution of pyrite in acidic media</i> , <b>Journal of Applied Electrochemistry</b> , 43; <b>2013</b> : 659-666.<br>ISSN: 0021-891X                                                                                       | Q2 | 2.409 |
| 23 | R. Buhaceanu, N.C. Lungu, N. Forna, I.V. Asaftei, <b>P. Chirita</b> , L.M. Birsa, <i>The influence of bromine substituent on optical properties of some 1,3-dithiolium derivatives</i> , <b>Revista de Chimie</b> , 64; <b>2013</b> : 960-964.<br>ISSN: 0034-7752                                    |    | 0.810 |
| 24 | N.C. Lungu, I. Sandu, <b>P. Chirita</b> , L.M. Birsa, <i>New water soluble 1,3-dithiolium salts</i> , <b>Revista de Chimie</b> , 64; <b>2013</b> : 697-700.<br>ISSN: 0034-7752                                                                                                                       |    | 0.810 |
| 25 | R. Buhaceanu, N.C. Lungu, N.C.Forna, I.V. Asaftei, <b>P. Chirita</b> , M.L. Birsa, <i>A new class of mesoionic 4-(1,3-Dithiol-2-ylum)phenolates</i> , <b>Revista de Chimie</b> , 64; <b>2013</b> : 803-807.<br>ISSN: 0034-7752                                                                       |    | 0.810 |
| 26 | <b>P. Chirita</b> , C.A. Constantin, M.L. Schlegel, <i>Electrochemical investigation of iron monosulfide oxidation by hydrogen peroxide</i> , <b>Mineralogical Magazine</b> , 77(5); <b>2013</b> : 876-876. (meeting abstract)<br>ISSN: 0026-461X                                                    | Q2 | 2.026 |
| 27 | C.E. Badica, <b>P. Chirita</b> , <i>The effect of 1,10-phenanthroline on the oxidative dissolution of iron monosulfide (FeS)</i> , <b>Mineralogical Magazine</b> , 77(5); <b>2013</b> :                                                                                                              | Q2 | 2.026 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|
|    | 640-640. (meeting abstract)<br>ISSN: 0026-461X                                                                                                                                                                                                                                                                                                          |    |       |
| 28 | C.A. Constantin, <b>P. Chirita</b> , C.E. Badica, L.M. Birsa, E. Matei, I. Baltog, M.L. Schlegel, <i>The effect of some new organic inhibitors on the oxidative dissolution of iron monosulfide (FeS)</i> , <b>Mineralogical Magazine</b> , 77(5); <b>2013</b> : 911-911. (meeting abstract)<br>ISSN: 0026-461X                                         | Q2 | 2.026 |
| 29 | C.A. Constantin, <b>P. Chirita</b> , M.L. Schlegel, <i>Electrochemical study of FeS oxidation by dissolved oxygen</i> , <b>Mineralogical Magazine</b> 77(2); <b>2013</b> : 171-171. (meeting abstract)<br>ISSN: 0026-461X                                                                                                                               | Q2 | 2.026 |
| 30 | C. Constantin, <b>P. Chirita</b> (corresponding author), M. Preda, <i>Characterization of pyrite reactivity by cyclic voltammetry</i> , <b>Revista de Chimie</b> , 65; <b>2014</b> : 215-218.<br>ISSN: 0034-7752                                                                                                                                        |    | 0.810 |
| 31 | <b>P. Chirita</b> , J.D. Rimstidt, <i>Pyrrhotite dissolution in acidic media</i> , <b>Applied Geochemistry</b> , 41; <b>2014</b> : 1-10.<br>ISSN: 0883-2927                                                                                                                                                                                             | Q2 | 2.268 |
| 32 | <b>P. Chirita</b> , C.E. Badica, C.A. Constantin, L.M. Birsa, E. Matei, M. Baibarac, <i>Influence of 2,2'-bipyridine on oxidative dissolution of iron monosulfide (FeS)</i> , <b>Surface and Interface Analysis</b> , 46; <b>2014</b> : 842-846.                                                                                                        |    | 1.245 |
| 33 | <b>P. Chirita</b> , C.A Constantin., E.C. Badica, I.M. Duinea, M.L. Birsa, E. Matei, I. Baltog, <i>Inhibition of troilite (FeS) oxidative dissolution in air-saturated acidic solutions by O-ethyl-S-2-(2-hydroxy-3,5-diiodophenyl)-2-oxoethylxantogenate</i> , <b>Materials Chemistry and Physics</b> , 157; <b>2015</b> : 101-107.<br>ISSN: 0254-0584 | Q2 | 2.259 |
| 34 | C.E. Badica, <b>P. Chirita</b> (corresponding author), <i>An electrochemical study of the oxidative dissolution of iron monosulfide (FeS) in air-equilibrated solutions</i> , <b>Electrochimica Acta</b> , 178; <b>2015</b> : 786-796.<br>ISSN: 0013-4686                                                                                               | Q1 | 4.504 |
| 35 | <b>P. Chirita</b> , M.L. Schlegel, <i>Oxidative dissolution of iron monosulfide (FeS) in acidic conditions: The effect of solid pretreatment</i> , <b>International Journal of Mineral Processing</b> , 135; <b>2015</b> : 57-64.<br>ISSN: 0301-7516                                                                                                    | Q2 | 1.310 |
| 36 | C.G. Hrib, <b>P. Chirita</b> , I.G. Sandu, I.V. Asaftei, L.G. Sarbu, K. Earar, <i>The Synthesis and X-Ray Structural Characterization of New 4-(5-Bromo-2-hydroxyphenyl)-1,3-Dithiol-2-ylum Perchlorates</i> , <b>Revista de Chimie</b> , 66; <b>2015</b> : 983-986.<br>ISSN: 0034-7752                                                                 |    | 0.810 |
| 37 | <b>P. Chirita</b> , C.G. Hrib, I. Sandu, N.C. Lungu, L.G. Sarbu, K. Earar, <i>A new class 4-(hydroxyaryl)-1,3-dithiolium chlorides</i> , <b>Revista de Chimie</b> , 66; <b>2015</b> : 1151-1154.<br>ISSN: 0034-7752                                                                                                                                     |    | 0.810 |
| 38 | D. Dirtu, I.V. Asaftei, <b>P. Chirita</b> , I.G. Sandu, M.L. Birsa, K. Earar, L.G. Sarbu, <i>Synthesis of 1,3-Dithio1-2-ylum Salts by Functionalization of Some Toluenols</i> , <b>Revista de Chimie</b> , 66; <b>2015</b> : 2028-2030.<br>ISSN: 0034-7752                                                                                              |    | 0.810 |
| 39 | M.I. Duinea, A. Costas, M. Baibarac, <b>P. Chirita</b> (corresponding author), <i>Mechanism of the cathodic process coupled to the oxidation of iron monosulfide by dissolved oxygen</i> , <b>Journal of Colloid and Interface Science</b> , 467; <b>2016</b> : 51-59.<br>ISSN: 0021-9797                                                               | Q2 | 3.368 |
| 40 | D. Dirtu, N.C. Lungu, <b>P. Chirita</b> , I.G. Sandu, M.L. Birsa, K. Earar, L.G. Sarbu, <i>Synthesis of Novel 4-(3,5-Dibromo-2-hydroxyphenyl)-5-Methyl-1,3-Dithiol-2-ylidene Derivatives</i> , <b>Revista de Chimie</b> , 67; <b>2016</b> : 534-537.<br>ISSN: 0034-7752                                                                                 |    | 0.810 |

## LIST OF PUBLICATIONS IN JOURNALS (Other than ISI Thomson Reuters)

1. **Chirita P.** (1998) L'effet des traitements oxidatives sur le saut de potentiel autour du point d equivalence pour la determination potentiometrique en ce qui concerne le Fe(II). *Analele Stiintifice ale Universitatii "A.I. Cuza" Iasi. Seria Geologie* 44 27-31.
2. **Chirita P.** (1999) Equilibrium distribution of tetrasulfide ion in water at 25 °C and 1 atm. *Analele Stiintifice ale Universitatii "A.I. Cuza" Iasi. Seria Chimie* 7 46-49.
3. **Chirita P.**, Samide A., Ciuca F., Cioatera N. (2000) The initial exposed to air pyrrhotite ( $\text{Fe}_{1-x}\text{S}$ ) dissolution in hydrochloric acid solution. *Analele Universitatii din Craiova. Seria Chimie* 29 9-12.
4. **Chirita P.**, Berdan I., Ciuca F., Cioatera N. (2000) The relationship between pyrite oxidation by ferric iron and trace metal content. *Analele Universitatii din Craiova. Seria Chimie* 29 103-106.
5. Berdan I., **Chirita P.**, Samide A. (2000) Etude sur la degradation hydrolytique du pyrrhotite.  $\text{Fe}_{1-x}\text{S}$ . *Analele Stiintifice ale Universitatii "A.I. Cuza" Iasi. Seria Chimie* 8 239-244.
6. Cioatera N., Ciuca F., Preda M., **Chirita P.** (2000) Electrodeposition of cooper and zinc from pyrophosphate solutions. *Analele Universitatii din Craiova. Seria Chimie* 29 70-74.
7. Rusu O., Pleniceanu M., **Chirita P.**, Baniceru M. (2001) The synthesis and characterization of the complex compound  $[\text{Bi}(\text{DH})_3]$ . Spectrophotometric determination of the Bi(III). *Analele Universitatii din Craiova. Seria Chimie* 30 5-8.
8. **Chirita P.**, Berdan I. (2002) Investigation of synthetic pyrrhotite dissolution in phosphate solutions at 25 °C. *Analele Stiintifice ale Universitatii "A.I. Cuza" Iasi. Seria Chimie* 10(1) 9-14.
9. **Chirita P.**, Preda M., Rusu O. (2002) Natural pyrrhotite dissolution in aqueous solution. *Southern Brazilian Journal of Chemistry* 10(11) 11-17.
10. **Chirita P.**, Samide A., Rusu O., Preda M. (2003) Leaching of natural pyrrhotite with hydrochloric acid solution. *Annals of West University of Timisoara. Series Chemistry* 12(3) 379-386.
11. Samide A., Bibicu I., Rusu O., **Chirita P.**, Preda M. (2003) Steel corrosion in diluted ammonia media studied by Mössbauer spectroscopy. *Analele Universitatii din Craiova. Seria Chimie* 32 1-8.
12. **Chirita P.**, Samide A., Rusu O., Preda M. (2003) The effect of pyrrhotite composition on its non-oxidative dissolution behavior in HCl solutions. *Analele Universitatii din Craiova. Seria Chimie* 32 57-61.
13. **Chirita P.**, Berdan I. (2003) Effect of iodide ions addition on the pyrrhotite dissolution in acidic solutions at low temperatures. *Analele Universitatii din Craiova. Seria Chimie* 32 63-68.
14. **Chirita P.**, Descostes M. (2003) Evaluation of oxidative and nonoxidative pyrrhotite dissolution paths: part I, theoretical approach. *Analele Universitatii din Craiova. Seria Chimie* 32 69-76.

15. Preda M., Samide A., Rusu O., **Chirita P.**, Cioatera N., (2003) A study of the corrosion inhibition of carbon steel in ammoniacal media diluted by N-cyclohexyl benzothiazole sulphen amide. Southern Brazilian Journal of Chemistry 11(12) 13-20.
16. **Chirita P.** (2004) On the use of formed  $H_2S$  quantity as reaction progress variable for nonoxidative dissolution of iron monosulfide (FeS). Analele Universitatii din Craiova. Seria Chimie 33, 45-48.
17. **Chirita P.** (2004) Pyrite oxidation by hydrogen peroxide in phosphoric acid solutions. The European Journal of Mineral Processing and Environmental Protection 4(3) 203-209.
18. Samide A., Bibicu I., Preda M., Rusu O., **Chirita P.** (2007) Investigation of carbon steel corrosion in diluted ammoniacal media. Southern Brazilian Journal of Chemistry 15(15) 59-69.
19. Constantin C.A., **Chirita P.**, Preda M. (2012) Acid mine drainage (AMD). Chemistry and remediation methods. Analele Universitatii din Craiova. Seria Chimie 41, 33-38.
20. **Chirita P.**, Hrib C.G., Birsa L.M. (2013) 5-Bromo-4-(3,5-dibromo-2-hydroxyphenyl)-2-(piperidin-1-yl)-1,3-dithiol-2-ylum bromide. Acta Crystallographica Section E69 o1097.
21. Badica C.E., Duinea M.I., **Chirita P.** (2013) Oxidative dissolution of pyrite at pH 4. Analele Universitatii din Craiova. Seria Chimie 42 30-33.

## LIST OF PRESENTATION TO INTERNATIONAL CONFERENCES

1. Samide A., **Chirita P.**, Rusu O., Preda M. (2004) Study of the corrosion inhibition of carbon steel in diluted ammonia media by ethylenthionure and N-cyclohexyl benzthiazole-sulphenamide, International Conference of the Chemical Societies of the South-East European Countries (ICOSECS 4) Belgrad, 18-21 July 2004.
2. **Chirita P.**, Samide A., Rusu O., Preda M. (2004) New aspects of pyrrhotite non-oxidative dissolution in acid conditions, International Conference of the Chemical Societies of the South-East European Countries (ICOSECS 4) Belgrad, 18-21 July 2004.
3. Rusu O., Mitache I., **Chirita P.** (2014) The problematization: active-participative method for the learning unit of carbonyl, International Conference of the Chemical Societies of the South-East European Countries (ICOSECS 4) Belgrad, 18-21 July 2004.
4. **Chirita, P.**, Descostes, M., Schlegel, M.L. Pyrrhotite oxidation in weakly acidic solutions Goldschmidt Conference 2007, Cologne, Germania, 19-24 August 2007.
5. **Chirita, P.**, Samide A., Ciuciu A., Descostes M., Schlegel M.L. (2009) Electrochemical study of FeS corrosion in acid solutions in the presence of benzothiazolic compounds. Goldschmidt Conference 2009, Davos, Elvetia, 21-26 June 2009.
6. **Chirita, P.** (2010) Effect of ionic strength on the kinetics of pyrite oxidation. Goldschmidt Conference 2010, Knoxville, SUA, 13-18 June 2010.
7. **Chirita, P.**, Schlegel M.L. (2011) Oxidation of FeS by  $\text{Fe}^{3+}_{(\text{aq})}$ . Goldschmidt2011, August 14-19, 2011, Prague, Czech Republic.
8. **Chirita, P.**, Schlegel M.L. (2011) The effect of treatments on FeS dissolution. 14th European Conference on Applications of Surface and Interface Analysis, September 04-09, 2011, Cardiff, UK.
9. **Chirita, P.**, Schlegel M.L. (2012) The oxidation of iron monosulfide (FeS) with  $\text{O}_2$ -bearing solutions in air-tight reactor. Experimental Mineralogy Petrology and Geochemistry. 04-07 March, 2012, Kiel, Germaia.
10. Constantin C.A., **Chirita, P.**, Schlegel M.L. (2012) The electrochemical study of FeS oxidation by dissolved oxygen. Goldschmidt2012, 24-29 June 2012, Montreal, Canada.
11. **Chirita, P.**, Schlegel M.L., Constantin C.A. (2012) Electrochemical study of pyrite oxidation in oxygen-bearing solutions. Goldschmidt2012, 24-29 June 2012, Montreal, Canada.
12. **Chirita, P.**, Constantin C.A., Schlegel M.L. (2013) Electrochemical investigation of iron monosulfide oxidation by hydrogen peroxide. Goldschmidt Conference, 25-30 August 2013, Florenta, Italia.

13. **Chirita, P.**, Constantin C.A., Schlegel M.L. (2013) Effect of inorganic anions on FeS oxidative dissolution. 14th International Symposium on Water-Rock Interaction, WRI 14 , Avignon, France, June 9-14, 2013.
14. Badica C.E., **Chirita, P.** (2013) The effect of 1,10-phenanthroline on the oxidative dissolution of iron monosulfide (FeS). Goldschmidt Conference 2013, Florence, Italy, August 25-30, 2013.
15. Constantin C.A., **Chirita, P.**, Badica C.E., Birsa L.M., Matei E., Baltog I., Schlegel M.L. (2013) The effect of some new organic inhibitors on the oxidative dissolution of iron monosulfide (FeS). Goldschmidt Conference 2013, Florence, Italy, August 25-30, 2013.
16. **Chirita, P.**, Badica C.E., Constantin C.A., Birsa L.M., Matei E., Baibarac M. (2013) Influence of 2,2'-bipyridine on oxidative dissolution of iron monosulfide (FeS). 15th European Conference on Applications of Surface and Interface Analysis, Cagliari, Italy, October 13 - 18, 2013.
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### LIST OF PRESENTATION TO NATIONAL CONFERENCES

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2. **Chirita P.**, Preda M., Rusu O. (2004) Influenta pH-ului asupra dizolvarii nonoxidative a pirotinei a XXVII-a Conferinta Nationala de Chimie, Calimanesti Caciulata 23-25 Octombrie 2004.
3. **Chirita P.** (2006) Oxidarea FeS cu oxigenul dizolvat in apa a XXIX-a Conferinta Nationala de Chimie, Calimanesti Caciulata 4-6 Octombrie 2006.
4. **Chirita P.**, Schlegel M.L. (2011) Surface properties of FeS and FeS<sub>2</sub>. A 10-A Conferinta de Chimia Coloizilor si Suprafetelor, cu Participare Internationala. 9-11 Iunie 2011, Galati, Romania.
5. **Chirita P.**, Cioatera N., Schlegel M.L. (2011) FeS dissolution as a function of solution pH and Eh. Romanian International Conference on Chemistry and Chemical Engineering, September 7-10, 2011, Sinaia, Romania.
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