

Curriculum Vitae

João Manuel Pires da Silva

(Associate Professor with Habilitation)

(University of Lisbon – Faculty of Sciences)

September, 2019

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Name: *João Manuel Pires da Silva*

Place of Birth: *Lisbon*

Date of Birth: *31/07/1963*

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ResearcherID - <http://www.researcherid.com/rid/A-4155-2009>)

Google Scholar: <http://scholar.google.pt/citations?user=v0sEpbIAAAAJ&hl=pt-PT>

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SUMMARY/OVERVIEW

João Pires da Silva (J. Pires) published or is co-author of 160 communications to congresses, 32 of which oral, 7 book chapters, 13 conference proceedings, 9 patent applications, and 155 scientific papers in SCI indexed journals, 4 of which of pedagogic nature. According to the Web of Science his works have more than 3500 citations and his *h*-index is 36 (41 on Google Scholar). More than 50% of the works were published in journals of the First Quartile (Q1) and 25 works are in top 10% journals of the respective categories.

He had management positions in the Faculty (vice-president of the Department, directive board of the Research Center - CQB). He was co-founder of two companies: Adsorfoam S. a. and Delox Lda.

Degrees:

Habilitation in Chemistry, University of Lisbon, 2007

PhD., "Adsorption Studies of Gases and Vapours in Zeolites with Faujasitic Structure", University of Lisbon, 1993

Master Degree, in Chemistry of Catalytic Processes with the thesis "Adsorption of n-Hexane and 3-methylpentane in Y and ZSM-20 Zeolites", IST - Lisbon, 1989

Graduation in Chemistry by the Faculty of Sciences - University of Lisbon, 1986

• Current Position

Associate Professor with Habilitation, Faculty of Sciences - Department of Chemistry and Biochemistry, University of Lisbon, Portugal

• Previous Positions

2007-2019 - Assistant Professor with Habilitation, Faculty of Sciences - Department of Chemistry and Biochemistry, University of Lisbon, Portugal

2007-1998 – Assistant Professor, Faculty of Sciences – Department of Chemistry and Biochemistry, University of Lisbon, Portugal

1998-1993 - Assistant Professor (mandatory 5 years' Probation Period), Faculty of Sciences – Department of Chemistry and Biochemistry, University of Lisbon, Portugal

1993-1989 - Assistant Lecturer, Faculty of Sciences – Department of Chemistry and Biochemistry, University of Lisbon, Portugal

1989-1987 - Junior Teaching Assistant, Faculty of Sciences – Department of Chemistry and Biochemistry, University of Lisbon, Portugal

1987-1986 - Junior Teaching Assistant, Technical Institute, Chemistry Engineering Department, Technical University of Lisbon, Portugal

Scientific Interests

The adsorption of gases and vapours in porous solids aiming to study the texture, surface chemistry, and molecular sieve properties of nanoporous materials, mainly zeolites, clay based, and metal organic frameworks (MOFs) are the current scientific interests of João Pires. His work also includes the synthesis and modification of the textural and surface chemistry properties of nanoporous materials with potential use in catalysis and selective adsorption (eg. gas purification and separation).

More recently, he has been studying nanoporous materials for the storage and delivering of small molecules with therapeutic effect.

He was member of Adsorfoam S.A. (president of general assembly). This "start-up" was created in 2007 and intends to produce filtering media, based in adsorbent materials supported in polymers, to improve the indoor air quality.

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2005-2015: **3 Postdocs**, **4 PhD students**, **11 Master students** and **20 Bachelor student (final project)s**.

• TEACHING ACTIVITIES

1993 – present: Assistant Professor (with Habilitation after 2007), Topics: Materials; Catalysis and Catalysts; Chemistry of Surfaces; Physical Chemistry; Inorganic Chemistry; Experimental Inorganic Synthesis; Experimental Biochemistry; at the Faculty of Sciences - Department of Chemistry and Biochemistry, University of Lisbon, Portugal. Workload: average of 10 hours of classes every week of the school calendar (30 weeks/year).

• ORGANISATION OF SCIENTIFIC MEETINGS

2012: Member of the Scientific Committee of the 8th *International Symposium on Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids*, (~200 people), Kraków, Poland

2012: Member of the Scientific Committee of the 1st *Ibero-America Symposium on Adsorption*, (~300 people), Recife, Brasil

2010: Chairman of the 35th *Iberian Reunion on Adsorption*, (~150 people), Lisbon, Portugal

• INSTITUTIONAL RESPONSIBILITIES

2013-present: Member of the Directive Board of PhD Program “Catalysis and Sustainability”, University of Lisbon, Portugal

2012-2014: Vice-President of the Department of Chemistry and Biochemistry, Faculty of Sciences, University of Lisbon, Portugal

2010 – 2011: Member of the Directive Board of Research Center in Chemistry and Biochemistry, University of Lisbon, Portugal

2001 – 2002: Member of the Directive Board of the Department of Chemistry and Biochemistry, Faculty of Sciences, University of Lisbon, Portugal

Congresses (Organization)

Member of the Organizing Committee of the 1st Historical Mortars Conference – HMC08, Lisbon, September of 2008.

Chairman of the XXXV “Reunião Ibérica de Adsorção”, Lisbon, September, 2010

Member of the Organizing Committee of the 41st Iberian Adsorption Meeting (41 RIA) & 3rd Iberoamerican Adsorption Symposium (IBA-3), Gijon, Spain, 2018

Referee work for International Journals

Advances in Environmental Research
Adsorption
Adsorption Science and Technology
Applied Catalysis
Applied Clay Science
Chemical Engineering Communications
Chemical Papers
Comptes Rendus de CHIMIE de l'Académie des Sciences
Conservar Património
Colloids and Surfaces A: Physicochemical and Engineering Aspects
Chemical Engineering Communications
Chemical Papers
Desalination
Environmental Science & Technology
Fuel
Frontiers of Environmental Science and Engineering
Industrial & Engineering Chemistry Research
Journal of Hazardous Materials
Journal of the American Ceramics Society
Journal of the Air & Waste Management Association
Journal of the American Chemical Society
Journal of Chemical & Engineering Data
Journal of Colloid and Interface Science
Journal of Environmental Chemical Engineering
Journal of Environmental Management
Journal of Membrane Science
Journal of Molecular Catalysis A: Chemical
Journal of Molecular Structure
Journal of Porous Materials
Journal of Solid State Chemistry
Journal of Thermal Analysis and Calorimetry
Langmuir
Microporous and Mesoporous Materials
Materials Chemistry and Physics
Materials Characterization
Nanomaterials
Polyhedron
Powder Technology
Research on Chemical Intermediates
Separation Science and Technology
Separation and Purification Technology
Surface and Interface Analysis
The Canadian Journal of Chemical Engineering

Prizes

Honorable Mention “Prémios Científicos ULisboa/CGD” Area of Chemistry, Chemical Engineering and Pharmaceutical Engineering, 2016

Prize “Giorgio Zgrablich” for the best scientific communication at the 1st Ibero-American Congresso on Adsorption, Recife, Brasil, 2012, in co-autoring with Moisés Pinto and João Rocha

Selection at the COHiTEC initiative, promoted by Portuguese COTEC in association with the HiTEC center of North Carolina State University. In the sequence of this initiative, the start-up “Adsorfoam S.A.” was created, and João Pires was president of the general assembly of the company.

Publications

Communications in Congresses

a) Oral

CO 32. Kevin Dedecker, Renjith S. Pillai, Farid Nouar, João Pires, Nathalie Steunou, Eddy Dumas, Guillaume Maurin, Christian Serre, Moisés L. Pinto

Metal-Organic Frameworks for Cultural Heritage preservation: the case of acetic acid removal

Chemistry at UL, 4rd Meeting of the College of Chemistry, Lisboa, 2019

CO 31. Rosana V. Pinto, Fernando Antunes, João Pires, Vanessa Graça, Paula Brandão, Moisés L. Pinto

Vitamin B3 metal organic-frameworks as potential delivery vehicles for store and release therapeutic nitric oxide

5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisboa, Março, 2017

CO 30. Moisés L. Pinto, Ana C. Fernandes, Fernando Antunes, João Pires, João Rocha

Microporous Titanosilicates for Therapeutic Nitric Oxide Release

10^o Encontro Nacional de Catálise e Materiais Porosos, Lisboa, Maio, 2016

CO 29. Luís Mafra, João Pires, José R. B. Gomes, Moisés L. Pinto

The Structure of CO₂ Adsorbed in Amine Functionalized Mesoporous Silicas

2nd EuCheMS Congress on Green and Sustainable Chemistry, Lisboa, Outubro, 2015

CO 28. Renjith S. Pillai, Moisés L. Pinto, João Pires, Miguel Jorge, José R. B. Gomes

Experimental and Computational Study on the Understanding of the Gas Adsorption Selectivity Demonstrated by IRMOF-8

2nd EuCheMS Congress on Green and Sustainable Chemistry, Lisboa, Outubro, 2015

CO 27. Ana C. Fernandes, Fernando Antunes, João Pires

Argilas Intercaladas com L-Histidina para Armazenamento e Libertação Terapêutica de Óxido Nítrico

XXXIV Reunión Ibérica de Adsorción, Baeza, Espanha, Setembro 2014

CO 26. Ana C. Fernandes, Fernando Antunes, João Pires

L-Histidine Intercalated Montmorillonite for Storage and Release of Nitric Oxide
CQB-day, FCUL, Lisboa, Julho, 2014

CO 25. João Pires, Vipin K. Saini, Moisés Pinto
Ethane Selective IRMOF-8 for Ethane-Ethylene Separation by Adsorption
Nanoporous Materials VII, Niagara Falls, Canada, Junho, 2014

CO 24. João Pires, Moisés Pinto, Vipin Saini, José M. Guil
Introduction of Aluminium into Porous Clays Heterostructures (PCHs) to Modify the Adsorption Properties
XXXIV Reunión Bienal de la Real Sociedad Española de Química, Santander, Espanha, 2013

CO 23. Ana.Silva, Ana Carvalho, João Pires
Asymmetric Heterogeneous catalysis by Copper(II) bis(oxazoline) Immobilized onto Porous Solid Supports
XXIII Encontro Nacional da Sociedade Portuguesa de Química, Aveiro, 2013

CO 22. Ana Fernandes, Moisés Pinto, João Pires
Montmorillonite and Sepiolite Clay Based Materials for Storage and Release of Nitric Oxide
9 Encontro Nacional de Catálise e Materiais Porosos, Porto, 2013

CO 21. Ana Fernandes, Fernando Antunes, João Pires
Citotoxicidade de Materiais Nanoporosos para o Armazenamento e Libertação Lenta de Óxido Nítrico
2º Encontro Nacional de Nanotoxicologia, Lisboa, 2013

CO 20. Vipin Saini, Moisés Pinto, João Pires
Microcellular Carbon-Foam froam Different Sucrose Impregnated Foam Shaped Templates
XXXVII Reunion Ibérica de Adsorción, Sevilha, 2012

CO 19. Ana Fernandes, Moisés Pinto, João Pires
Materiais Adsorventes a partir da Sepiolite - Armazenamento e Libertação de Óxido Nítrico com Fins Terapêuticos
XXXVII Reunion Ibérica de Adsorción, Sevilha, 2012

CO 18. João Pires, Moisés Pinto, Ana Fernandes
Materiais de Base Argilosa para o Armazenamento e Libertação de Óxido Nítrico com Fins Terapêuticos
1º Simpósio Iberoamericano de Adsorção, Recife, Brasil, 2012

CO 17. Moisés Pinto, João Pires, João Rocha
Armazenamento e Libertação Lenta de Óxido Nítrico em Titanosilicatos ETS-4 com Cobre e Cobalto para Aplicações Terapêuticas
1º Simpósio Iberoamericano de Adsorção, Recife, Brasil, 2012

CO 16. Ana Fernandes, Moisés Pinto, João Pires
Clay materials for the storage and release of nitric oxide for therapeutic purposes
3rd Portuguese Young Chemists Meeting, Porto, 2012

CO 15. Ana R. Silva, Vanessa Guimarães, Ana Carvalho, João Pires
Anchored Copper(II) aza-bis(Oxazoline) Complex as Asymetric Heterogeneous Catalysts for the Cyclopropanation of Styrene
FineCat 2012 - Symposium on Catalysis for Fine Chemicals, Palermo, Italy, 2012

CO 14. Clara Preira, C. Alves, A. Monteiro, G. Blanco, J. M. Pintado, Ana Carvalho, João

Pires, M. F. R. Pereira, Cristina Freire

Designing Superamphiphobic Textiles by One-Pot co-Condensation: A Novel Route Based on Mesoporous Silica Nanoparticles

12th World Textile Conference AUTEX, Zadar, Croatia, 2012

CO 13. Salete Balula, Isabel Santos, Luís Cunha-Silva, Ana Carvalho, João Pires, Baltazar de Castro, Cristina Freire, Ana Cavaleiro

Efficient Routes for Epoxidation of Monoterpenes Using Polyoxometalates

Europacat X Conference, Glasgow, Scotland, 2011

CO 12. Moisés Pinto, Luís Mafra, José M. Guil, João Pires, João Rocha

Adsorção de CO₂ em Argilas Porosas Modificadas com Aminas Estudadas por RMN do Estado Sólido e Adsorção de ¹³CO₂

XXXV Reunião Ibérica de Adsorção, Lisboa Portugal, 2010.

CO 11. Clara Pereira, A. M. Pereira, A. S. Silva, L. S. G. Fernandes, J. F. Silva, A. I. Sousa, P. B. Tavares, Ana Carvalho, João Pires, D. S. Schmool, J. P. Araújo, Cristina Freire

Novel Functional Silica-Coated Magnetic Nanoparticles: Synthesis and Characterization

8th Inorganic Chemistry Conference, Curia, Portugal, 2009

CO 10. Ana S. Mestre, João Pires, José M.F. Nogueira, José B. Parra, Ana P. Carvalho, Conchi O. Ania

Adsorção de Ibuprofeno em Solução Aquosa em Carvões Activados preparados a partir de Desperdícios

XXXIII Reunión Ibérica de Adsorción, Madrid, Espanha, 2008

CO 9. Ana Carvalho, Paula Gonçalves, Maria Mendonça, António Cruz, João Pires

Synthesis of Artists' Pigments Following Ancient Recipes: White Lead

41st IUPAC World Chemistry Congress, Turin, Itália, 2007.

CO 8. João Pires, Moisés Pinto e Ana Carvalho

Caracterização da Hidrofobicidade de Sólidos Mesoporosos: Sílicas e Argilas com Pilares de Sílica

XXXI Reunión Ibérica de Adsorción, Tarragona, Espanha, 2006.

CO 7. Cristina Dalmau, Lourdes Matias, Ana Carvalho, João Pires e António Cruz

Estudos de Adsorção de Azoto em Argamassas Antigas da Igreja de S. Gião (Nazaré)

XXXI Reunión Ibérica de Adsorción, Tarragona, Espanha, 2006.

CO 6. António Cruz, João Pires, Ana Carvalho, Manuela Carvalho

Estudo da Capacidade de Materiais para Adsorver Vapores de Ácido Acético com vista à Alteração dos Objectos de Chumbo conservados em Museus

XXVII Reunión Ibérica de Adsorción, León, Espanha, 2002.

CO 5. J. M. Guil, J. M. Perdígón-Melón, M. B. Carvalho, Ana Carvalho, J. Pires

Estimación de la Textura Microporosa de Arcillas Apiladas Mediante Adsorción de Moléculas Sonda

XXIII Reunião Ibérica de Adsorção, Évora, Portugal, 1998.

CO 4. Paulo Pereira, João Pires, Manuela Carvalho

Separação de Gases por Argilas com Pilares de Zircónio

XXIII Reunião Ibérica de Adsorção, Évora, Portugal, 1998.

CO 3. Manuela Carvalho, Ana P. Carvalho e João Pires

Argilas com Pilares: Efeito do Material de Partida na Intercalação

Actas do XIV Simpósio Iberoamericano de Catálise, Concepcion - Chile, 1994

CO 2. João Pires, Manuela Carvalho, Fernando R. Ribeiro, Eric Derouane
Calores de Adsorção e Coeficientes de Transferência de Massa de Hidrocarbonetos em Zeólitos Y e ZSM-20 por TG/DSC
XIV Reunion Iberica de Adsorcion, Alicante, Espanha, 1989.

CO 1. Manuela Carvalho, João Pires
Adsorção de Gases e Vapores em Zeólitos
XXI Reunion Biental de la Real Sociedad Española de Química, Santiago de Compostela, Espanha, 1986.

b) Poster

CP 128. Francisco Miranda, Moisés L. Pinto, **João Pires**
Adsorption of Water in Nanoporous Materials for Heat Pumps
Chemistry at UL, 4rd Meeting of the College of Chemistry, Lisboa, 2019

CP 127. Rosana V. Pinto, Ana S. Oliveira, Fernando Antunes, **João Pires**, Moisés L. Pinto
Characterization of PCL/Zeolite Films for Nitric Oxide Adsorption and Therapeutic Release
Chemistry at UL, 4rd Meeting of the College of Chemistry, Lisboa, 2019

CP 126. João Pires, Fadhil Musa, Raquel Nogueira, Fernando Antunes
A New Technology for Automatic Bio-Decontamination: Sorbed Hydrogen Peroxyde
8th International Symposium on CBRN Physical Protection and Decontamination, Munster, Alemanha, 2019

CP 125. Rosana Pinto, Cristina Fernandes, **João Pires**, Fernando Antunes, João Rocha, Zhi Lin, Moisés Pinto
Nitric Oxide-Releasing Porous Materials and their Potential Regulation of in-vitro Biological Functions
19th biennial meeting for the Society for Free Radical Research International (SFRRI), Lisboa, 2018

CP 124. Rosana V. Pinto, Fernando Antunes, Moisés L. Pinto, **João Pires**
Nitric Oxide Releasing Materials and their Potential Biological Effects
Chemistry at UL, 3rd Meeting of the College of Chemistry, Lisboa, 2018

CP 123. Paula Gómez-Álvarez, Enrique Lomba, **João Pires**, Eva G. Noya, Susana Valencia
Adsorption Studies of Short-Chain Alcohol Water Solutions in MEL and MFI Pure Silica Zeolites
41ª Reunión Ibérica de Adsorción e 3º Simpósio Ibero-Americano de Adsorción (IBA-3), Gijón, 2018

CP 122. Rosana Pinto, Cristina Fernandes, **João Pires**, Fernando Antunes, João Rocha, Zhi Lin, Moisés Pinto
Nitric oxide-releasing porous materials: assessment of their potential to regulate biological functions
41ª Reunión Ibérica de Adsorción e 3º Simpósio Ibero-Americano de Adsorción (IBA-3), Gijón, 2018

CP 121. Ana C. Fernandes, Fernando Antunes, Moisés Pinto, João Rocha, Luís Mafra, **João Pires**

Microporous titanosilicates for H₂S storage and therapeutical release

41ª Reunião Ibérica de Adsorção e 3º Simpósio Ibero-Americano de Adsorção (IBA-3), Gijón, 2018

CP 120. Sofia Schlichter, Mariana Alvarez, **João Pires**, Andreia F. Peixoto, Cristina Freire
Esterificación de ácidos grasos por medio de catálisis heterogénea empleando catalizadores ácidos mesoporosos

XX Congreso Argentino de Catálisis, Córdoba, Argentina, 2017

CP 119. Enrique Lomba, Paula Gomez- Alvarez, **João Pires**, Eva Noya
Adsorptive-Based Recovery of Bioalcohols: A Simulation and Experimental Study
FisEs '17, XXI Congreso de Física Estadística, Sevilla, Espanha, Março, 2017

CP 118. **João Pires**, Ana Fernandes, Romane Caracciolo
Adsorption of Hexane Isomers by Microporous Clay Based Materials
5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisboa, Março, 2017

CP 117. Luís Mafra, Tomaz Čendak, Sarah Schneider, Paul V. Wiper, **João Pires**, José R. B. Gomes, Moisés L. Pinto
The Structure of CO₂ Chemisorbed Species in Amine-Functionalized Mesoporous Silicas
5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisboa, Março, 2017

CP 116. Mirtha A. O. Lourenço, Moisés L. Pinto, **João Pires**, José R. B. Gomes, Paula Ferreira
Cooking Periodic Mesoporous Phenylene- and Biphenylene-Silicas for CO₂/CH₄ Separation
5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisboa, Março, 2017

CP 115. Mirtha A. O. Lourenço, Ricardo M. Silva, Rui F. Silva, Nicola Pinna, Stephane Pronier, João Pires, José R. B. Gomes, Moisés L. Pinto, Paula Ferreira
Turning Periodic Mesoporous Organosilicas Selective to CO₂/CH₄ Separation: Controlled Deposition of Aluminium Oxide by ALD.
XXIV Encontro Nacional da Sociedade Portuguesa de Química, Coimbra, 2015

CP 114. Paulo Rosa, António J. Cruz, João Pires
Characterization of Historical Mortars of Convent of Christ in Tomar
XXIV Encontro Nacional da Sociedade Portuguesa de Química, Coimbra, 2015

CP 113. Ana S. Mestre, Cristina Freire, João Pires, Ana P. Carvalho, Moisés Pinto
High Performance Microspherical Activated Carbons for Methane Storage and Upgrade
XXXIV Reunión Ibérica de Adsorción, Baeza, Espanha, Setembro 2014

CP 112. Moisés Pinto, Ana Fernandes, João Rocha, Artur Ferreira, Fernando Antunes, João Pires
Storage and Slow Release of Therapeutic Nitric Oxide from Microporous Titanosilicates Cu²⁺ -And Co²⁺-ETS-4
Nanoporous Materials VII, Niagara Falls, Canada, Junho, 2014

CP 111. Moisés Pinto, Ana Fernandes, João Rocha, Artur Ferreira, Fernando Antunes, João Pires
Storage and Slow Release of Therapeutic Nitric Oxide from Microporous Titanosilicates

Cu^{2+} -And Co^{2+} -ETS-4

Nanoporous Materials VII, Niagara Falls, Canada, Junho, 2014

CP 110. João Pires, Vipin Saini

MOF-199 impregnated in a zeolite foam as an adsorbent of volatile organic compounds (VOCs)

XXIII Encontro Nacional da Sociedade Portuguesa de Química, Aveiro, 2013

CP 109. João Pires, Romeu Avó

Bioinspired Synthesis of Porous Materials using Poly-L-Lysine as Template

9 Encontro Nacional de Catálise e Materiais Porosos, Porto, 2013

CP 109. Moisés Pinto, Sandra Dias, João Pires

Composite MOF Foams: the Example of UiO-66/polyurethane

Third International Conference on Multifunctional, Hybrid and Nanomaterials, Sorrento, Itália, 2013

CP 107. Moisés Pinto, Susana Borges, João Pires, Jose M. Guil

Argilas Porosas com Alumínio: Influência do Teor de Al nas Propriedades de Adsorção

XXXVII Reunión Ibérica de Adsorción, Sevilha, 2012

CP 106. João Pires, Moisés Pinto, Jacqueline Marques

Argilas Porosas Heteroestruturais com Zircónio para a Separação de Misturas de Hidrocarbonetos

1º Simpósio Iberoamericano de Adsorção, Recife, Brasil, 2012

CP 106. João Pires, Susana Borges, Ana Carvalho, Helder Albuquerque, Ana R. Silva

Sílicas Mesoporosas e Correspondentes Réplicas de Carbono como Suportes de Catalisadores de Ciclopropanação

1º Simpósio Iberoamericano de Adsorção, Recife, Brasil, 2012

CP 104. Clara Pereira, Carolina Alves, Andreia Monteiro, Ginesa Blanco, Ana Carvalho, João Pires, Manuel Pereira, Cristina Freire

Design of Novel Hydrophobic Mesoporous Silica Nanoparticles and Amphiphobic Cotton Textiles

Colloids and Materials 2011, Amsterdam, Holanda

CP 103. José Guil, S. J. Khatib, Noe Almarza, A. Gallardo, João Pires

Differences in Hydrocarbons Adsorption on PILCs of Similar Zr (pillars) Composition

5th International FEZA Conference, Valencia, Espanha, 2011

CP 102. Hélio Albuquerque, Susana Borges, Ana Carvalho, João Pires, Ana R. Silva

Strategies for Copper bis(oxazoline) Immobilisation onto Porous Silica Based Materials

XV. International Symposium on Relations between Homogeneous and Heterogeneous Catalysis". Berlim, Alemanha, 2011

CP 101. Moisés Pinto, Luís Mafra, José Gomes, João Pires, João Rocha

Structure of NO and CO₂ Adsorbed in Porous Materials

SMARTER-2 Conference: Structure elucidation by coMbinIng mAgnetic Resonance, compuTation modELing and diffRactions, Aveiro, Portugal, 2011

CP 100. João Pires, Moisés Pinto, Leonor Côrte-Real, João Rocha

Adsorption of Vapours in ETS-4 and ETS-10 Titanosilicates

Second International Conference on Multifunctional, Hybrid and Nanomaterials, Estrasburgo, França, 2011

CP 99. Moisés Pinto, João Pires

The Separation of Hydrocarbons on Porous Clays Studied by Chromatography

Second International Conference on Multifunctional, Hybrid and Nanomaterials, Estrasburgo, França, 2011

CP 98. Ana R. Silva, Hélio Albuquerque, Susana Borges, Ana Carvalho, João Pires

Strategies for the immobilisation of privileged ligands onto solid supports: bis(oxazoline) case study

3rd EuCheMS Chemistry Congress, Nürnberg, Alemanha, 2010

CP 97. Hélio Albuquerque, Ana R. Silva, Susana Borges, Ana Carvalho, João Pires

Bis(oxazoline) anchored onto a hexagonal mesoporous silica as asymmetric heterogeneous catalyst in the cyclopropanation of styrene

3rd EuCheMS Chemistry Congress, Nürnberg, Alemanha, 2010

CP 96. José M. Guil, S. Jatib Khatib, Noe Almarza, Antonio Gallardo, João Pires

Diferencias en la Adsorción de Hidrocarburos en PILCs con Similar Composición de Zr (Pílares)

XXXV Reunião Ibérica de Adsorção, Lisboa Portugal, 2010.

CP 95. I. Kuzniarska-Biernacka, Clara Pereira, Ana Carvalho, João Pires, Cristina Freire

Anchoring of [Mn(Cl-Jacobsen)Cl] onto a Porous Heterostructured Clay: Application in the Epoxidation of Olefins.

XXXV Reunião Ibérica de Adsorção, Lisboa Portugal, 2010.

CP 94. Susana Borges, Ana Carvalho, Ana Silva, João Pires

Sílicas Porosas e Respectivas Réplicas de Carbono para Adsorção e Catálise

XXXV Reunião Ibérica de Adsorção, Lisboa Portugal, 2010.

CP 93. Hélio Albuquerque, André Fontes, Susana Borges, Ângela Martins, Ana Carvalho, João Pires, Ana R. Silva

Ciclopropanação de Estireno por Bis(Oxazolina) de Cobre(II) Encapsulada em Zeólitos

XXXV Reunião Ibérica de Adsorção, Lisboa Portugal, 2010.

CP 92. Vipin K. Saini, Marta Andrade, Moisés Pinto, Ana Carvalho, João Pires

Propriedades de Adsorção do SBA-15 e da Correspondente Réplica de Carbono CMK-3

XXXV Reunião Ibérica de Adsorção, Lisboa Portugal, 2010.

CP 91. Clara Pereira, Andreia Monteiro, Hugo Gaspar, Lisete Fernandes, Eloy del Río, André Pereira, Pedro Tavares, Ginesa Blanco, Jose Pintado, João Araújo, Ana Carvalho, João Pires, Manuel Pereira e Cristina Freire

From White to Black Hybrid Silica Nanocomposites

ANM 2010 - Third International Conference on Advanced Nano Materials, Morocco, 12 a 15 de Setembro de 2010.

CP 90. Nuno Neng, Ana Mestre, João Pires, José Nogueira, Ana Carvalho

Cork-based activated carbons as enrichment materials for bar adsorptive micro-extraction (BA μ E) - Analysis of ibuprofen and clofibric acid in real matrices

34th International Symposium on Capillary Chromatography and 7th GCxGC Symposium, Riva del Garda, Itália, Maio 30 - Junho 4, 2010.

CP 89. J.M. Guil, S. J.Khatib, João Pires, A.P. Carvalho, C. Cabrillo, E. Lomba, N. G. Almarza

Estudios texturales y de adsorción en PILCs. Microcalorimetría, difracción de neutrones y modelización/simulación

XXXII Reunión Bienal de la Real Sociedad Española de Química, Oviedo, 2009

CP 88. Begoña Ruiz, Ivânia Cabrita, Ana Mestre, José Parra, João Pires, Ana Carvalho, Conchi Ania

Metal-Loaded Carbons for the Removal of Paracetamol from Drinking Water

Seventh International Symposium on Surface Heterogeneity Effects, Kazinierz Dolny, Polónia, 2009.

CP 87. Ana Mestre, Moisés Pinto, João Pires, Ana Carvalho

Cork-based Activated Carbons for Ibuprofen and Clofibric Acid Adsorption from Water

Carbon for Energy Storage and Environment Protection 2009 Conference (CESEP'09), Torremolinos, Espanha.

CP 86. Ana Mestre, Nuno Neng, João Pires, José Nogueira, Ana Carvalho

Cork-based Activated Carbons as Enrichment Materials for Analysis of Ibuprofen and Clofibric Acid at Trace Levels in Environmental Matrices

Carbon 2009, The International Carbon Conference, Biarritz, França, 2009.

CP 85. Clara Pereira, Hugo Gaspar, Ginesa Blanco, José Pintado, Ana Carvalho, João Pires, Cristina Freire

Amine-Functionalized PCHs as Novel Supports for the Immobilization of [VO(acac)₂] and Catalytic Activity

EuropaCat-IX, Salamanca, Espanha, 2009.

CP 84. Sara Fernandes, Ana Carvalho, João Pires, Angela Martins

Hydrogenation Properties of Pt/activated Carbons

EuropaCat-IX, Salamanca, Espanha, 2009.

CP 83. Fátima Portugal Moisés Pinto, João Pires, José Nogueira

Polyurethane Foams for Enhanced Stir Bar Sorptive Extraction of Triazinic Metabolites

34th International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Dresden, Alemanha, 2009.

CP 82. Ana Mestre, Moisés Pinto, João Pires, Ana Carvalho

Cork-based Activated Carbons for Ibuprofen and Clofibric Acid Adsorption from Water

Carbon for Energy Storage and Environment Protection 2009 Conference (CESEP'09), Torremolinos, Espanha

CP 81. Carolina Alves, Clara Pereira, Marta Andrade, Ana Carvalho, João Pires, Cristina Freire

Silica Nanoparticles for Application in Textiles to Generate Hydrophobic and Oleophobic Surfaces

8ª Conferência de Química Inorgânica, Curia, 2009

CP 80. Clara Pereira, A. Pereira, A. Silva, L. Fernandes³, J.F. Silva, A. I. Sousa, P. Tavares, Ana Carvalho, João Pires, D.S. Schmool, J.P. Araújo, Cristina Freire

Novel Functional Silica-Coated Magnetic Nanoparticles: Synthesis and Characterization

8ª Conferência de Química Inorgânica, Curia, 2009

CP 79. Viviana Paixão, Clara Santos, Ana R. Nunes, João M. Silva, João Pires, Ana P. Carvalho, Angela Martins

Hidroisomerização de n-hexano sobre catalisadores compósitos à base de zeólitos e materiais mesoporosos

XXI Simpósio Iberoamericano de Catálise, Málaga-Benalmádena, Espanha, 2008

CP 78. Judite Miranda, João Pires, Ana Carvalho

Assesment of the Binder/Aggregate Ratio of Mortars by Various Techniques

HMC 08 Historical Mortars Conference, Lisboa, 2008

CP 77. Patrícia Adriano, Santos Silva, João Pires, Ana Carvalho, António Cruz , Rosário

Veiga, Ana Magalhães, José Mirão, António Candeias

Chemical-physical and mechanical characterization of old mortars from The Santa Maria Church in Évora, Portugal

HMC 08 Historical Mortars Conference, Lisboa, 2008

CP 76. Santos Silva, Rosário Veiga, Patrícia Adriano, Ana Magalhães, João Pires, Ana

Carvalho, José Mirão, António Candeias

Characterization of historical mortars from Alentejo's religious buildings

HMC 08 Historical Mortars Conference, Lisboa, 2008

CP 75. Ana Mestre, João Pires, José Nogueira, Ana Carvalho

Activated Carbons as Enrichment Materials prior to Chromatographic Analysis of Ibuprofen

32nd International Symposium on Capillary Chromatography and 5th GCxGC Symposium, to Riva del Garda, Itália, 2008

CP 74. Fátima Portugal, Moisés Pinto, João Pires, José Nogueira

Polyurethane Foams as New Generation Polymeric Phases for Stir Bar Sorptive Extraction:

Application in the Analysis of Triazines in Environmental Water Matrices

32nd International Symposium on Capillary Chromatography and 5th GCxGC Symposium, to Riva del Garda, Itália, 2008

CP 73. Clara Santos, Angela Martins, Rubén Leitão, João Pires, Cristina Freire, Ana P. Carvalho

Preparação de carvões Mesoporosos usando como Matriz Argilas Porosas

Heteroestruturadas

XXXIII Reunión Ibérica de Adsorción, Madrid, Espanha, 2008

CP 72. Inês B. Neves , Moisés L. Pinto, João Pires, Ana P. Carvalho

Caracterização de carvões para o Tratamento de Efluentes Gasosos de Incineração

XXXIII Reunión Ibérica de Adsorción, Madrid, Espanha, 2008

CP 71. Moisés L. Pinto, Luís Mafra, Manuela R. Silva, Fa-Nian Shib, Cristina Coelho, João Pires, João Rocha

Caracterização da Porosidade de Materiais Híbridos Porosos Preparados a partir de Aminoácidos Quirais

XXXIII Reunión Ibérica de Adsorción, Madrid, Espanha, 2008

CP 70. João Pires, Vipin. Saini, Moisés L. Pinto

Estudos de Adsorção Selectiva a Pressão Elevada de Componentes do Biogás em Argilas com Pilares (PILCs)

XXXIII Reunión Ibérica de Adsorción, Madrid, Espanha, 2008

CP 69. José Silva, Clara Pereira, Susana Rebelo, Ana Carvalho, João Pires, Cristina Freire

Amine-Functionalised Silica Nanoparticles as Supports for $[M(acac)_2]$ Catalysts

XXI Encontro Nacional da Sociedade Portuguesa de Química, Porto, 2008

CP 68. Fátima Portugal, Moisés Pinto, João Pires, J. M. F. Nogueira

Advances in SBSE: New Polyurethane Foams for Determination of Polar Pollutants

XXI Encontro Nacional da Sociedade Portuguesa de Química, Porto, 2008

CP 67. Ana Mestre, Marta Andrade, João Pires, Ana Carvalho

Adsorção de o-Diclorobenzeno em Carbonizados de pó de Cortiça

XXI Encontro Nacional da Sociedade Portuguesa de Química, Porto, 2008

CP 66. Helena Alves, João Pires, Marta Andrade, Ana P. Carvalho, Clara Pereira, Susana Rebelo, Cristina Freire

Chiral Jacobsen Complexes Immobilised in Pillared Clays

XXI Encontro Nacional da Sociedade Portuguesa de Química, Porto, 2008

CP 65. Moisés L. Pinto, João Pires, João Rocha

Materiais Porosos para a Adsorção de Óxido Nítrico

XXI Encontro Nacional da Sociedade Portuguesa de Química, Porto, 2008

CP 64. Clara Santos, Ângela Martins, Ruben Leitão, João Pires, Cristina Freire, Ana Carvalho

Preparation of Mesoporous Carbons using a Porous Clay Heterostructured as Template

Chempor, Braga, 2008

CP 63. Pankaj Das, Ana Silva, Ana Carvalho, João Pires e Cristina Freire

Mn(III)-Salen Complex Immobilized onto Laponite through Axial Coordinating Linker: An Efficient Epoxidation Catalyst

International Conference on Emerging Trends in Chemical Sciences (ICETCS), Bombay, India, 2007.

CP 62. Ana Mestre, Marta Andrade, João Pires, Ana Carvalho

Adsorption of Dioxin Model Compounds on Activated Carbons

41st IUPAC World Chemistry Congress, Turin, Itália, 2007

CP 61. I. Kuzniarska-Biernacka, Ana Silva, Ana Carvalho, João Pires e Cristina Freire

Anchoring of Mn(salen) Based Complex onto Organo-Clays and Heterogeneous Catalytic Activity in the Enantioselective Epoxidation of Alkenes

EuropaCat-VIII, Turku/Abo, Finlândia, 2007.

CP 60. Ana Carvalho, Lourdes Matias, António Cruz, João Pires

Historical Lime Mortars: Evaluation of Binder/Aggregate Ratio

41st IUPAC World Chemistry Congress, Turin, Itália, 2007.

CP 59. Moisés Pinto, João Pires e João Rocha

Materiais Porosos Obtidos a partir de Argilas com Potencial Aplicação na Purificação de Biogás

8º Encontro Nacional de Catálise e Materiais Porosos, Lamego, 2007.

CP 58. Fátima Portugal, Moisés Pinto, João Pires, José Nogueira

Application of New Polymeric Phases for STIR BAR Sorptive Extraction in the Analysis of Triazinic Herbicides

31st International Symposium on High Performance Liquid Phase Separations and Related Techniques, Ghent, Bélgica, 2007

CP 57. Clara Pereira, Susana Rebelo, Ana Carvalho, João Pires e Cristina Freire

Catalytic Activity of Vanadyl(IV) Acetylacetonate Anchored Onto Amine-Functionalised Porous Silica Materials in the Epoxidation of Geraniol

8º Encontro Nacional de Catálise e Materiais Porosos, Lamego, 2007.

- CP 56.** I. Kurniarska-Biernacka, Ana Carvalho, João Pires e Cristina Freire
Mn(Jacobsen) Complex Anchored onto Organo-Functionalised Heterostructured Clay as Catalyst for Enantioselective Epoxidation of Alkenes
 8º Encontro Nacional de Catálise e Materiais Porosos, Lamego, 2007.
- CP 55.** André Gameiro, Elizabete Ferreira, Ivânia Cabrita, Tânia Henriques, M. Eduarda Araújo, Ana Carvalho e João Pires
Porous Materials from Clays for Drug Delivery Systems
 8º Encontro Nacional de Catálise e Materiais Porosos, Lamego, 2007.
- CP 54.** Sara Fernandes, Ângela Martins, João Pires, Ana Carvalho e Helena Vasques
Análise Comparativa do Desempenho de Argilas com Pilares e Zeólitos na Metilação do Tolueno
 8º Encontro Nacional de Catálise e Materiais Porosos, Lamego, 2007.
- CP 53.** Clara Pereira, Susana L. H. Rebelo, Ana P. Carvalho, João Pires, Cristina Freire
Aziridination of Styrene by Copper(II) Acetylacetonate Catalyst Anchored onto Amine-Functionalised Porous Silicas
 7ª Conferência de Química Inorgânica, Porto, 2007
- CP 52.** Paula Ferreira, Rui Rodrigues, Ana Carvalho e João Pires
Chirally Templated Porous Clay Heterostructures Assembled from a Natural Clay
 Fifth International Conference on Inorganic Materias, Ljubljana, Eslovénia, 2006.
- CP 51.** Nuno Neng, Fátima Portugal, Moisés Pinto, Paula Marcos, João Pires e José Nogueira
New Polimeric Phases for Stir Bar Sorptive Extraction
 29th International Symposium on Capillary Chromatography, Riva del Garda, Itália, 2006
- CP 50.** João Pires, Ana Carvalho e António Cruz
Caracterização Textural de Argamassas Portuguesas Antigas
 XX Encontro Nacional da Sociedade Portuguesa de Química, Caparica, 2006.
- CP 49.** Ana Mestre, João Pires, José Nogueira e Ana Carvalho
Ibuprofen Adsorption onto Activated Carbons Prepared from Cork Waste
 XX Encontro Nacional da Sociedade Portuguesa de Química, Caparica, 2006.
- CP 48.** Clara Pereira, Ana Silva, Ana Carvalho, João Pires e Cristina Freire
Epoxidation of Geraniol by Vanadyl(IV) Acetylacetonate Catalyst Anchored onto Amine-Functionalized Clays
 XX Encontro Nacional da Sociedade Portuguesa de Química, Caparica, 2006.
- CP 47.** Fátima Portugal, Nuno Neng, Moisés Pinto, João Pires e José Nogueira
Development of New Polymeric Phases for Stir Bar Sorptive Extraction and Their Application in the Determination of Triazinic Pesticides in Water Matrices
 XX Encontro Nacional da Sociedade Portuguesa de Química, Caparica, 2006.
- CP 46.** Bruno Jarrais, Clara Pereira, Ana Silva, Ana Carvalho, João Pires e Cristina Freire
Anchoring of Vanadyl(IV) Acetylacetonate onto Amine-Functionalized Mesoporous Silica: Catalytic Activity in the Epoxidation of an Allylic Alcohol
 4º Encontro do REQUIMTE, Fátima, 2006.
- CP 45.** Clara Pereira, Ana Silva, Ana Carvalho, João Pires e Cristina Freire
Amine-functionalized clays as supports for Cu(II) and VO(IV) acetylacetonate catalysts
 4º Encontro do REQUIMTE, Fátima, 2006.

- CP 44.** Tiago Borrego, Ana R. Silva, Ana Carvalho, João Pires, João Rocha e Cristina Freire
External vs internal area: amine-functionalization of inorganic materials
4º Encontro do REQUIMTE, Fátima, 2006.
- CP 43.** Pankaj Das, Ana Silva, Ana Carvalho, João Pires e Cristina Freire
FSM-16 as support for a enantioselective Manganese(III) salen catalyst
XXIXth Chiselhurst Style Annual Meeting of the British Zeolite Association, Ambleside, UK, 2006.
- CP 42.** Ana Carvalho, Ana Mestre, Raquel Gomes e João Pires
Chemically activated carbons from cork waste for o- dichlorobenzene adsorption
Carbon 2006, The International Carbon Conference, Aberdeen, Escócia, 2006
- CP 41.** Rui Rodrigues, Ana P. Carvalho, João Pires, Paula Ferreira
Synthesis of a Chiral Porous Clay Heterostructure Assembled from a Natural Portuguese Clay
III Jornadas do CICECO, Aveiro, 2006
- CP 40.** Nuno Correia, João Bordado, João Pires, Manuela Carvalho, Ana P. Carvalho, Moisés L. Pinto
Open Cell Polyurethane Foams for New Filters with Supported Adsorbents
European Polymer Congress, Moscovo, Rússia, 2005
- CP 39.** Nuno Neng, Moisés L. Pinto, Paula Marcos, João Pires, José Nogueira
Desenvolvimento e Optimização de Novas Fases Poliméricas para Extração Sorptiva em Barra de Agitação
4º Encontro Nacional de Cromatografia, Évora, 2005
- CP 38.** Pankaj Das, Ana R. Silva, Ana P. Carvalho, João Pires, Cristina Freire
Immobilisation of the Jacobsen Catalyst on a Laponite through 3-aminopropyltriethoxysilane inker and its Catalytic Activity in the Enantioselective Epoxidation of Alkenes
8th FIGIPAS Meeting in Inorganic Chemistry, Athens, Greece, 2005
- CP 37.** Moisés L. Pinto, João Pires, Ana P. Carvalho, Manuela Carvalho, João C. Bordado
Síntese de Materiais Compósitos Poliuretano/Adsorvente e Caracterização por Métodos de Adsorção
7º Encontro da Divisão de Catálise e Materiais Porosos da SPQ, Lisboa, 2005
- CP 36.** Bruno Barraís, I. K.-Biernacka, Ana R. Silva, Ana P. Carvalho, João Pires, Cristina Freire
Ancoragem de acetilacetato de vanádio(IV) numa argila com pilares: Actividade catalítica na epoxidação de um álcool alílico
6th Conference on Inorganic Chemistry, Funchal, 2005
- CP 35.** Paula Ferreira, Paula Brandão, João Rocha, Carla D. Nunes, João Pires, Ana P. Carvalho, Maria J. Calhorda
Synthesis of organic-inorganic hybrid porous clay heterostructure by gallery template approach
6th Conference on Inorganic Chemistry, Funchal, 2005
- CP 34.** João Pires, Ana P. Carvalho, I. K.-Biernacka, Ana R. Silva, Cristina Freire
Materiais argilosos modificados com um complexo quiral de Mn(III)salen: Efeito do suporte na reacção de epoxidação enantioselectiva de alcenos
7º Encontro da Divisão de Catálise e Materiais Porosos da SPQ, Lisboa, 2005

CP 33. Maria L. Matias, Ana P. Carvalho, João Pires, António J. Cruz, Maria Ramalho
Caracterização de argamassas antigas: Estudo de alguns exemplares da igreja de S. Gião (Nazaré)

7º Encontro da Divisão de Catálise e Materiais Porosos da SPQ, Lisboa, 2005

CP 32. Nuno Correia, F. Ramôa Ribeiro, João C. Bordado, João Pires, Manuela Carvalho, Ana P. Carvalho, Moisés Pinto

Síntese e desenvolvimento de novas espumas com adsorventes suportados para filtros de ar

7º Encontro da Divisão de Catálise e Materiais Porosos da SPQ, Lisboa, 2005

CP 31. Nuno Correia, Ana Carvalho, João Pires, Moisés Pinto, Manuela Carvalho

Open cell polyurethane foams for new filters with supported adsorbents

Materiais 2005: XII Portuguese Materials Society Meeting / III International Materials Symposium, Aveiro, 2005.

CP 30. Fernanda Costa, Ana Carvalho, João Pires, Isabel Neves, António Fonseca

Immobilization of hydride tungsten complex in microporous structures

Materiais 2005: XII Portuguese Materials Society Meeting / III International Materials Symposium, Aveiro, 2005.

CP 29. Fátima Vaz, Ana Carvalho, Maria Samora, João Pires

Characterisation of ceramic tiles

Materiais 2005: XII Portuguese Materials Society Meeting / III International Materials Symposium, Aveiro, 2005.

CP 28. Paula Ferreira, João Rocha, Ana Carvalho, João Pires, Paula Brandão, Carla D. Nunes
Hydrophobic porous clay benzene-silica hybrid heterostructures formed by gallery-templated synthesis. Study of their potential application in volatile organic compounds adsorption

Materiais 2005: XII Portuguese Materials Society Meeting / III International Materials Symposium, Aveiro, 2005.

CP 27. Pankaj Das, Ana R. Silva, Ana P. Carvalho, João Pires, Manuela Carvalho, Cristina Freire, Baltasar de Castro

Jacobsen and Katsuki type complexes encapsulated into aluminium pillared clay and their activity as catalyst for heterogeneous epoxidation of styrene

7th Post-Graduate Summer School on Green Chemistry, Veneza, 2004.

CP 26. Fernanda Costa, António Fonseca, Isabel C. Neves, Ana P. Carvalho, João Pires

Efeito da Matriz na Imobilização de um Complexo de Tungsténio

XIX Encontro Nacional da Sociedade Portuguesa de Química, Coimbra, 2004.

CP 25. Pankaj Das, Iowna K.-Biernacka, Cristina Freire, Baltasar de Castro, Ana P. Carvalho, João Pires, Manuela B. Carvalho

Catalytic Activity of Chiral Mn(III)SALEN Complexes Immobilised In Aluminium Pillared Clays

XIX Encontro Nacional da Sociedade Portuguesa de Química, Coimbra, 2004.

CP 24. Fernanda Costa, António Fonseca, Isabel C. Neves, Ana P. Carvalho, João Pires

New heterogeneous Asymmetric Catalysis based on Molybdenum Complexes In Clays

Fourth International Conference on Inorganic Materials, Bélgica, 2004

CP 23. João Pires, Ana P. Carvalho, Manuela B. Carvalho, Iowna K.-Biernacka, Ana R. Silva, Cristina Freire, Baltasar de Castro

Laponites modificadas com complexos do tipo Mn(III)salen: caracterização da mesoporosidade

XXIX Reunião Ibérica de Adsorção, Porto, 2004.

CP 22. Ana R. Silva, Ana P. Carvalho, João Pires, Manuela B. Carvalho, Cristina Freire, Baltasar de Castro, Iowna K.-Biernacka

Heterogeneous epoxidation of styrene by pillared clays modified with [Mn(saldPh)Cl]
13th International Congress in Catalysis, Paris, 2004.

CP 21. Fernanda Costa, Carlos J.R. Silva, António M. Fonseca, Isabel C. Neves, Ana P. Carvalho, João Pires, Manuela B. Carvalho

Preparation of New Materials containing Diazoalcanes Molybdenum Complexes in Pillared Clays

II International Materials Symposium em conjunto com XI Encontro da Sociedade Portuguesa de Materiais, P4.02, pp. 198, 2003.

CP 20. Iowna K.-Biernacka, Ana R. Silva, Rita Ferreira, Cristina Freire, Baltasar de Castro, Ana P. Carvalho, João Pires, Manuela B. Carvalho

Heterogeneous Epoxidation of Styrene by Pillared Clays Modified with Mn(sald)X
Actas do VI Encontro da Divisão de Catálise e Materias Porosos da SPQ, Évora, Maio de 2003

CP 19. Iowna K.-Biernacka, Ana R. Silva, Rita Ferreira, Cristina Freire, Baltasar de Castro, Ana P. Carvalho, João Pires, Manuela B. Carvalho

Anchoring of Mn(4-HOsalophen)Cl onto a Pillared Clay and Heterogeneous Catalytic Activity In the Epoxidation of Styrene

7th FIGIPS Meeting In Inorganic Chemistry, Lisboa, Junho de 2003

CP 18. Beatriz Cardoso, João Pires, Ana P. Carvalho, Manuela B. Carvalho, Ana R. Silva, Cristina Freire, Baltasar de Castro

Simultaneous Encapsulation of Mn Complexes and Pillaring of a Montmorillonite type Clay
7th FIGIPS Meeting In Inorganic Chemistry, Lisboa, Junho de 2003

CP 17. João Pires, Moisés Pinto, Patrícia Veloso, Ana Carvalho

Caracterização por Adsorção Física de Gases da Mesoporosidade de Zeólitos Desaluminados
6º Encontro Nacional de Química Física, Lisboa, 2003

CP 16. Moisés Pinto, João Pires, Ana Carvalho, Manuela Carvalho

Caracterização da Hidrofobicidade de Espumas de Poliuretano por Adsorção de Água e de Tolueno

Actas do VI Encontro da Divisão de Catálise e Materias Porosos da SPQ, Évora, Maio de 2003

CP 15. Angela Martins, Ana Carvalho, João Silva, João Pires, Helena Vasques, Manuela B. Carvalho

Materiais Microporosos: Estudo Comparativo da Acidez de Argilas com Pilares e de um Zeólito do Tipo Y

Conf. Científica e Tecnológica em Engenharia, ISEL, Lisboa, 2002

CP 14. Ana Carvalho, João Pires, Manuel Carvalho, Carla Castanheira, Baltasar de Castro, Cristina Freire

Preparação e Caracterização de Argilas com Pilares Funcionalizadas com Complexos de Cobre (II)

XXVII Reunión Ibérica de Adsorción, León, 2002.

CP 13. João Pires, Ana Carvalho, Patrícia Veloso, Manuel Machado, Manuela B. Carvalho
Zeólitos e Argilas com Pilares em Protecção Ambiental: Estudos de oclusão de Nitratos

5º Encontro da Divisão de Catálise da SPQ, Leiria, 2001.

CP 12. Ângela Martins, Ana Carvalho, João Silva, João Pires, Helena Vasques e Manuela Carvalho

Caracterização da Acidez de Argilas com Pilares e de um Zeólito do tipo Y
XVII Encontro da Sociedade Portuguesa de Química, Lisboa, 2000.

CP 11. João Pires, Elisabete Clara, Ana Carvalho e Manuela Carvalho

Intercalação de Argilas do tipo Laponite
XVII Encontro da Sociedade Portuguesa de Química, Lisboa, 2000.

CP 10. João Pires, Manuela Carvalho, Ana Carvalho, J. M. Guil e J.A. Perdigón Melón
Métodos Calorimétricos Aplicados ao Estudo de Propriedades Texturais de Argilas com Pilares (PILCs)

4º Encontro da Divisão de Catálise da SPQ, Aveiro, 1999.

CP 9. João Pires, Ana Carvalho, Paulo Pereira, Manuela Carvalho e Paul Grange

Estudos de Acidez em Argilas com Pilares de Óxidos de Alumínio ou Zircónio
3º Encontro da Divisão de Catálise da SPQ, Lisboa, 1997.

CP 8. Paulo Pereira, João Pires, João Barros e Manuela Carvalho

Intercalação de Argilas Nacionais - Efeito do Teor de Zircónio
XV Encontro Nacional da Sociedade Portuguesa de Química, Porto, 1996.

CP 7. João Pires, Manuela Carvalho e Manuel Machado

Preparação e Caracterização de Argilas com Pilares Mistos de Alumínio e Cério
XV Encontro Nacional da Sociedade Portuguesa de Química, Porto, 1996.

CP 6. Eduardo Filipe, Jorge Calado, Luís Martins, João Pires e Manuela Carvalho

The Xenon + Alkanes Interaction: Integrating Solution and Adsorption Data
24th IUPAC Conference on Solution Chemistry, Lisboa, 1995.

CP 5. João Pires, Ana Carvalho e Manuela Carvalho

Argilas com Pilares: Caracterização da Microporosidade
XX Reunión Ibérica de Adsorción, Santander, Espanha, 1995.

CP 4. Paulo Pereira, João Pires e Manuela Carvalho

Intercalação de Argilas com Pilares de Zircónio
XX Reunión Ibérica de Adsorción, Santander, Espanha, 1995

CP 3. João Pires, Manuela Carvalho, F. Ramôa Ribeiro e Eric Derouane

Adsorção em Sólidos Microporosos: neo-Pentano em Zeólitos Y e ZSM-20
XIII Encontro da Sociedade Portuguesa de Química, Lisboa, 1992.

CP 2. João Pires, Manuela Carvalho, F. Ramôa Ribeiro, J.B. Nagy e Eric Derouane

Caracterização de Zeólitos por RMN de ¹²⁹Xe
XIII Encontro da Sociedade Portuguesa de Química, Lisboa, 1992.

CP 1. João Pires, Manuela Carvalho, F. Ramôa Ribeiro e Eric Derouane

Silicoaluminophosphate Molecular Sieves: Characterization of Textural and Acidic Properties
Characterization of Porous Solids-II, Alicante, 1990

Abstracts in International Symposia (with referees) (AS)

AS 13. Ruben Leitão, Clara Santos, Angela Martins, Ruben Elvas Leitão, João Pires, Cristina Freire, Ana Carvalho

Preparation of mesoporous carbons using a porous clay heterostructured as template

Proceedings of 10th Chemical and Biological Engineering Conference, Braga, 2008

AS 12. Viviana Paixão, Clara Santos, Ana R. Nunes, João M. Silva, João Pires, Ana Carvalho, Angela Martins

Hidroisomerização de n-hexano sobre catalisadores compósitos à base de zeólitos e materiais mesoporosos

Actas do XXI Simpósio Iberoamericano de Catálise, Málaga-Benalmádena, España, 2008

AS 11. Angela Martins, Ana P. Carvalho, João M. Silva, João Pires, Helena Vasques e Manuela Carvalho

Transformação do 1-butenos sobre Argilas com Pilares

Proceedings of the 8th International Chemical Engineering Conference Chempor'2001, Aveiro, 2001, Vol. I, p.307-314.

AS 10. Ana Carvalho, B. Cardoso, João Pires e Manuela Carvalho

Optimização do Processo de Preparação de Carvões activados a Partir de Desperdícios de Cortiça com Ácido Fosfórico

Actas de la Reunion del Grupo Español del Carbón, J. P. Villegas e J. D. Valle (Editores), Cáceres, 2001, pags. 79-80.

AS 9. Manuela Carvalho, João Pires e Ana Carvalho

Investigaciones sobre Carbón y Materiales Carbonosos en la Facultad de Ciencias de Lisboa

Actas de la Reunion del Grupo Español del Carbón, J. P. Villegas e J. D. Valle (Editores), Cáceres, 2001, pags. 11-12.

AS 8. Manuela Carvalho, João Pires e Ana Carvalho

Pillared Clays Prepared from Porto Santo Bentonites

Proceedings of the 1st Latin American Clay Conference, Funchal, 2000, Vol. II, p. 225-230.

AS 7. José M. Guil, José P.-Melón, Manuela Carvalho, Ana Carvalho e João Pires

Estudio de la Microporosidad de Arcillas Apilaradas (PILCs) Mediante Microcalorimetria de Adsorción de Moléculas Sonda

Actas do XVII Simpósio Iberoamericano de Catálise, J. M. Órfão, J. L. Faria e J. L. Figueiredo (Editores), Porto, 2000, 6 pags. (ed. em CD-ROM).

AS 6. Ana Carvalho, Beatriz Cardoso, João Pires e Manuela Carvalho

Carvões Obtidos por Activação Química de Desperdícios de Cortiça. Influência de Diversos Parâmetros Experimentais

Actas do XVII Simpósio Iberoamericano de Catálise, J. M. Órfão, J. L. Faria e J. L. Figueiredo (Editores), Porto, 2000, 6 pags. (ed. em CD-ROM).

AS 5. João Pires, Elisabete Clara, Ana Carvalho e Manuela Carvalho

Adsorção de Compostos Orgânicos Voláteis (VOCs)

Actas do XVII Simpósio Iberoamericano de Catálise, J. M. Órfão, J. L. Faria e J. L. Figueiredo (Editores), Porto, 2000, 6 pags. (ed. em CD-ROM).

AS 4. Manuela Carvalho, Paulo Pereira e João Pires

Argilas com Pilares de Zircónio para Remoção do CO₂ em Misturas de Hidrocarbonetos

Actas do XVII Simpósio Iberoamericano de Catálise, J. M. Órfão, J. L. Faria, J. L. Figueiredo (Editores), Porto, 2000, 6 pags. (ed. em CD-ROM).

AS 3. Manuela Carvalho, Ana Carvalho e João Pires

Argilas com Pilares: Efeito do Material de Partida na Intercalação

Actas do XIV Simpósio Iberoamericano de Catálise, Concepcion - Chile, 1994, p. 753-756.

AS 2. João Pires, Manuela Carvalho, F. Ramôa Ribeiro e Eric Derouane

Caracterização Textural de Zeólitos Y e ZSM-20 por Adsorção de CO₂

Actas do XIII Simpósio Iberoamericano de Catálise, Segóvia – Espanha, 1992, p. 715-718.

AS 1. João Pires, Manuela Carvalho, F. Ramôa Ribeiro e Eric Derouane

Características Estruturais do Silicoaluminato (ZSM-20) e Silicoaluminofosfato (SAPO-37) Estudadas por Adsorção de Azoto e Dióxido de Carbono

Actas do XII Simpósio Iberoamericano de Catálise, Rio de Janeiro – Brasil, 1990, p.163-172

Book Chapters (BC)

BC. 7. Paula Gonçalves, João Pires, Ana Carvalho, Maria Mendonça, António Cruz

Theory vs Practice: synthesis of red lead following ancient recipes

in The Materials of the Image. As Matérias da Imagem, L. U. Afonso (ed.), Lisboa, Campo da Comunicação, 2010, Chap. 11, pags. 201-210. (ISBN: 978-989-8465-00-9)

BC. 6. Paula Gonçalves, João Pires, Ana Carvalho, Maria Mendonça, António Cruz

Theory vs Practice: synthesis of white lead following ancient recipes

in The Materials of the Image. As Matérias da Imagem, L. U. Afonso (ed.), Lisboa, Campo da Comunicação, 2010, Chap. 10, pags. 185-200. (ISBN: 978-989-8465-00-9)

BC. 5. João Pires e Moisés Pinto,

Pillared Interlayered Clays as Adsorbents of Gases and Vapours,

in Pillared Clays and Related Catalysts, Antonio Gil, Sophia A. Korili, Raquel Trujillano, Miguel Angel Vicente (Eds.), Springer, 2010 p. 23-42. (ISBN: 978-1-4419-6669-8).

BC 4. António Cruz, João Pires, Ana Carvalho e Manuela Carvalho

Utilização de Materiais Adsorventes na Prevenção da Alteração dos Objectos Metálicos Expostos em Museus – o Caso do Chumbo

in Ligas Metálicas – Investigação e Conservação, Armando Silva e Paula Menino Homem (Eds.) Cap. 7, Universidade do Porto, 2008, pags. 91-105. (ISBN: 978-972-8932-22-0).

BC 3. João Pires

Textural and Surface Chemistry Characterisation of Zeolites via Adsorption Phenomena

in Handbook of Surfaces and Interfaces of Materials, H. S. Nalwa (Editor), Cap. 12, Academic Press, 2001, pags. 481-507 (ISBN: 0-12-513912-8).

BC 2. João Pires, Ana P. Carvalho e Manuela Carvalho

Potencialidades das Argilas com Pilares como Adsorventes Microporosos

in “Catalizadores y Adsorbentes para la Protección Ambiental en la Región Iberoamericana” CYTED Ciencia y Tecnología para el Desarrollo, 1998, p. 169-172.

BC 1. João Pires, Manuela Carvalho, F. Ramôa Ribeiro e Eric Derouane

Adsorption of n-Hexane and 3-Methylpentane on Zeolites Y and ZSM-20

in A.E. Rodrigues *et al.* (Editores), Adsorption: Science and Technology, Kluwer Acad. Pub., 1989, p.79-84

Publications in Portuguese Journals (AN)

- AN 1.** Manuela Carvalho, João Pires e F. Ramôa Ribeiro
Influência dos Cátions Sódio e Níquel na Capacidade de Adsorção de Azoto e de n-Heptano em Mordenites
Revista Portuguesa de Química, 30 (1988) 62-66.
- AN 2.** Manuela Carvalho, João Pires e Ana Carvalho.
Preparação de Argilas com Pilares (PILCs) a partir de Materiais de Origem Portuguesa
Química, 63 (1996) 32-34.
- AN 3.** Ana Carvalho, João Pires, António Cruz, Lourdes Matias
Estudo e Caracterização de Argamassas, Cerâmicas Arquitectónicas e Materiais Pétreos – o Contributo da Química
Revista Património Estudos 10 (2007) 81-87.

Publications in International Journals (AI)

- AI 160. João Pires**, Joana Fernandes, Kevin Dedecker, José R. B. Gomes, Germán Pérez-Sánchez, Farid Nouar, Christian Serre, Moisés L. Pinto
Enhancement of Ethane Selectivity in Ethane–Ethylene Mixtures by Perfluoro Groups in Zr-Based Metal-Organic Frameworks
ACS Appl. Mater. Interfaces 11 (2019) 27410-27421 (IF: 8.5, Q1, Top 10%)
(doi:10.1021/acsami.9b07115)
- AI 159.** Rosana V. Pinto, Ana C. Fernandes, Fernando Antunes, Zhi Lin, João Rocha, **João Pires**, Moisés L. Pinto
New Generation of Nitric Oxide-Releasing Porous Materials: Assessment of their Potential to Regulate Biological Functions
Nitric Oxide 90 (2019) 29-36. (IF: 3.4, Q2)
(doi:10.1016/j.niox.2019.05.010)
- AI 158.** Mirtha A. O. Lourenço, Cláudia Nunes, José R. B. Gomes, João Pires, Moisés L. Pinto, Paula Ferreira
Pyrolyzed Chitosan-Based Materials for CO₂/CH₄ Separation
Chemical Engineering Journal 362 (2019) 364-374. (IF: 8.4, Q1, Top 5%)
(doi:10.1016/j.cej.2018.12.180)
- AI 157.** Susana Ribeiro, Carlos Granadeiro, Pedro Almeida, **João Pires**, Maria Capel-Sanchez, José Campos-Martin, Sandra Gago, Baltazar de Castro, Salete S. Balula
Oxidative Desulfurization Strategies using Keggin-type Polyoxometalate Catalysts: Biphasic versus Solvent-Free Systems
Catalysis Today 333 (2018) 226-236. (IF: 4.9, Q1)
(doi:10.1016/j.cattod.2018.10.046)
- AI 156.** Joana Fernandes, Ana C. Fernandes, Jesús C. Echeverría, Paula Moriones, Julián J. Garrido, **João Pires**
Adsorption of Gases and Vapours in Silica Based Xerogels
Colloids and Surfaces A Physicochem Eng Aspects 561 (2019) 128-135. (IF: 3.1, Q2; Citações: 2)
(doi:j.colsurfa.2018.10.063)

- AI 155.** Paula Gómez-Álvarez, Eva Noya, Enrique Lomba, Susana Valencia, **João Pires**
Study of Short-Chain Alcohol and Alcohol-Water Adsorption in MEL and MFI Zeolites
 Langmuir 34 (2018) 12739-12750. (IF: 3.7, Q2; Citações: 1)
 (doi:10.1021/acs.langmuir.8b02326)
- AI 154.** Sofia Schlichter, Mariana Rocha, Andreia F. Peixoto, **João Pires**, Cristina Freire, Mariana Alvarez
Copper Mesoporous Materials as Highly Efficient Recyclable Catalysts for the Reduction of 4-Nitrophenol in Aqueous Media
 Polyhedron 150 (2018) 69-76. (IF: 2.3, Q2)
 (doi:10.1016/j.poly.2018.04.037)
- AI 153.** Kevin Dedecker, Renjith S Pillai, Farid Nouar, **João Pires**, Nathalie Steunou, Eddy Dumas, Guillaume Maurin, Christian Serre, Moisés L. Pinto
Metal-Organic Frameworks for Cultural Heritage Preservation: the Case of Acetic Acid Removal
 ACS Appl. Mater. Interfaces 10 (2018) 13886-13894. (IF: 8.5, Q1, Top 10%)
 (doi:10.1021/acsami.8b02930)
- AI 152.** João Pires, Joanna Jużków, Moisés L. Pinto
Amino Acid Modified Montmorillonite Clays as Sustainable Materials for Carbon Dioxide Adsorption and Separation
 Colloids and Surfaces A: Physicochem. Eng. Aspects 373 (2018) 158–166.
 (doi:10.1016/j.colsurfa.2018.02.019)
- AI 151.** Luís Mafra, Tomaž Čendak, Sarah Schneider, Paul V. Wiper, João Pires, José R.B. Gomes, Moisés L. Pinto
Amine Functionalized Porous Silica for CO₂/CH₄ Separation by Adsorption: Which Amine and Why
 Chemical Engineering Journal 336 (2018) 612–621.
 (doi:10.1016/j.cej.2017.12.061)
- AI 150.** Mirtha A. O. Lourenço, Moisés L. Pinto, João Pires, José R. B. Gomes, Paula Ferreira
Carbonization of periodic mesoporous phenylene- and biphenylene-silicas for CO₂/CH₄ separation
 Carbon 119 (2017) 267-277. (IF: 6.2, Q1, Top 10%)
 (doi: [10.1016/j.carbon.2017.04.029](https://doi.org/10.1016/j.carbon.2017.04.029))
- AI 149.** Rosana V. Pinto, Fernando Antunes, João Pires, Vanessa Graça, Paula Brandão, Moisés L. Pinto
Vitamin B3 metal-organic frameworks as potential delivery vehicles for therapeutic nitric oxide
 Acta Biomaterialia 51 (2017) 66-74. (IF: 6.0, Q1, Top 10%)
 (doi: [10.1016/j.actbio.2017.01.039](https://doi.org/10.1016/j.actbio.2017.01.039))
- AI 148.** Luís Mafra, Tomaž Čendak, Sarah Schneider, Paul V. Wiper, João Pires, José R. B. Gomes, Moisés L. Pinto
The Structure of Chemisorbed CO₂ Species in Amine-Functionalized Mesoporous Silicas Studied by Solid-State NMR and Computer Modeling
 Journal of the American Chemical Society, 139 (2017) 389-408. (IF: 12.1, Q1, Top 10%)
 (doi: [10.1021/jacs.6b11081](https://doi.org/10.1021/jacs.6b11081))
- AI 147.** João Pires, Joana Fernandes, Ana C. Fernandes, Moisés L. Pinto

Reverse Selectivity of Zeolites and Metal-organic Frameworks (MOFs) in the Ethane/Ethylene Separation by Adsorption
Separation Science and Technology 52 (2017), 51-57. (IF: 1.1, Q3)
(doi: [10.1080/01496395.2016.1243130](https://doi.org/10.1080/01496395.2016.1243130))

AI 146. Vipin K. Saini, João Pires
Development of Metal Organic Framework-199 Immobilized Zeolite Foam for Adsorption of Common Indoor VOCs
Journal of Environmental Sciences 55 (2017) 321-330. (IF: 2.2, Q2)
(doi: [10.1016/j.jes.2016.09.017](https://doi.org/10.1016/j.jes.2016.09.017))

AI 145. Ana C. Fernandes, João Pires
Adsorption of Volatile Organic Compounds on Zeolite L
Journal of Chemical and Engineering Data 61 (2016) 3890-3896. (IF: 1.84, Q2)
(doi: [10.1021/acs.jced.6b00624](https://doi.org/10.1021/acs.jced.6b00624))

AI 144. Ana C. Fernandes, Moisés L. Pinto, Fernando Antunes, João Pires
Synthetic Cobalt Clays for the Storage and Slow Release of Therapeutic Nitric Oxide
RSC Advances 6 (2016) 41195-41203.
(doi: [10.1039/c6ra05794b](https://doi.org/10.1039/c6ra05794b))

AI 143. Moisés L. Pinto, Ana C. Fernandes, Fernando Antunes, João Pires, João Rocha
Storage and Delivery of Nitric Oxide by Microporous Titanosilicate ETS-10 and Al and Ga Substituted Analogues
Microporous and Mesoporous Materials 229 (2016) 83-89.
(doi: [10.1016/j.micromeso.2016.04.021](https://doi.org/10.1016/j.micromeso.2016.04.021))

AI 142. João Pires, André Janeiro, Filipe J. Oliveira, Alexandre C. Bastos, Moisés L. Pinto
Monolithic Porous Carbon Materials Prepared from Polyurethane Foam Templates
Carbon Letters 18 (2016) 1-7.
(doi: [10.5714/CL.2016.18.011](https://doi.org/10.5714/CL.2016.18.011))

AI 141. Mirtha A.O. Lourenço, Christophe Siquet, Mariana Sardo, Luis Mafra, João Pires, Miguel Jorge, Moisés L. Pinto, Paula Ferreira, José R. B. Gomes
Interaction of CO₂ and CH₄ with Functionalized Periodic Mesoporous Phenylene-Silica: Periodic DFT Calculations and Gas Adsorption Measurements
Journal of Physical Chemistry C 120 (2016) 3863-3875.
(doi: [10.1021/acs.jpcc.5b11844](https://doi.org/10.1021/acs.jpcc.5b11844))

AI 140. João Pires, Susana Borges, Ana Carvalho, Clara Pereira, André M. Pereira, Carlos Fernandes, João P. Araújo, Cristina Freire
Magnetically Recyclable Mesoporous Iron Oxide-Silica Materials for the Degradation of Acetaminophen in Water under Mild Conditions
Polyhedron 106 (2016) 125-131.
(doi: [10.1016/j.poly.2016.01.007](https://doi.org/10.1016/j.poly.2016.01.007))

AI 139. Andreia F. Peixoto, Ana C. Fernandes, Clara Pereira, João Pires, Cristina Freire
Physicochemical Characterization of Organosilylated Halloysite Clay Nanotubes
Microporous and Mesoporous Materials 219 (2016) 145-154.
(doi: [10.1016/j.micromeso.2015.08.002](https://doi.org/10.1016/j.micromeso.2015.08.002))

AI 138. Mirtha A. O. Lourenço, Ricardo M. Silva, Rui F. Silva, Nicola Pinna, Stephane Pronier, João Pires, José R. B. Gomes, Moisés L. Pinto, Paula Ferreira
Turning Periodic Mesoporous Organosilicas Selective to CO₂/CH₄ Separation: Deposition of Aluminium Oxide by Atomic Layer Deposition
Journal of Materials Chemistry A 3 (2015) 22860-22867.

(doi: [10.1039/C5TA05964J](https://doi.org/10.1039/C5TA05964J))

AI 137. Ana C. Fernandes, Moisés L. Pinto, Fernando Antunes, João Pires
L-Histidine Based Organoclays for the Storage and Release of Therapeutic Nitric Oxide
Journal of Materials Chemistry B - Materials for Biology and Medicine 3 (2015) 3556-3563.
(doi: [10.1039/C4TB01913J](https://doi.org/10.1039/C4TB01913J))

AI 136. Renjith S. Pillai, Moisés L. Pinto, João Pires, Miguel Jorge, José R. B. Gomes
Understanding Gas Adsorption Selectivity in IRMOF - 8 Using Molecular Simulation
ACS Applied Materials and Interfaces 7 (2015) 624-637
(doi: [10.1021/am506793b](https://doi.org/10.1021/am506793b))

AI 135. João Pires
Simple Analysis of Historical Lime Mortars
Journal of Chemical Education (2014), in press
(doi: [10.1021/ed500336p](https://doi.org/10.1021/ed500336p))

AI 134. Ana S. Mestre, Ricardo A. Pires, Ivo Aroso, Emanuel M. Fernandes, Moisés L. Pinto, Rui L. Reis, Marta A. Andrade, João Pires, Susana P. Silva, Ana P. Carvalho
Activated Carbons Prepared from Industrial pre-Treated Cork: Sustainable Adsorbents for Pharmaceutical Compounds Removal
Chemical Engineering Journal 253 (2014) 408-417
(doi: [10.1016/j.cej.2014.05.051](https://doi.org/10.1016/j.cej.2014.05.051))

AI 133. Moisés L. Pinto, Vipin K. Saini, José M. Guil, João Pires
Introduction of Aluminum to Porous Clays Heterostructures to Modify the Adsorption Properties
Applied Clay Science, 101 (2014) 497-502.
(doi: [10.1016/j.clay.2014.09.013](https://doi.org/10.1016/j.clay.2014.09.013))

AI 132. Ana S. Mestre, Cristina Freire, João Pires, Ana P. Carvalho, Moisés L. Pinto
High Performance Microspherical Activated Carbons for Methane Storage and Landfill Gas or Biogas Upgrade
Journal of Materials Chemistry A 2 (2014) 15337-15344.
(doi: [10.1039/c4ta03242j](https://doi.org/10.1039/c4ta03242j))

AI 131. João Pires, Moisés L. Pinto, Vipin K. Saini
Ethane Selective IRMOF-8 and its Significance in Ethane-Ethylene Separation by Adsorption
ACS Applied Materials and Interfaces 6 (2014) 12093-12099.
(doi: [10.1021/am502686g](https://doi.org/10.1021/am502686g))

AI 130. Alberto Gallardo, José M. Guil, Enrique Lomba, Noe Almarza, Sheima Khatib, Carlos Cabrillo, Alejandro Sanz, João Pires
Adsorption of Probe Molecules in Pillared Interlayered Clays: Experiment and Computer Simulation
The Journal of Chemical Physics 140 (2014) 224701-224715
(doi: [10.1063/1.4880962](https://doi.org/10.1063/1.4880962))

AI 129. João Pires, Ana C. Fernandes, Romeu Avó
Bioinspired Synthesis of Mesoporous Silicas Using Large Molecular Weight poly-L-lysine at Neutral pH
Journal of Materials Science 49 (2014) 6087-6092
(doi: [10.1007/s10853-014-8335-8](https://doi.org/10.1007/s10853-014-8335-8))

AI 128. Hélio Albuquerque, Liliana Carneiro, Ana P. Carvalho, João Pires, Ana R. Silva

Enantioselective Cyclopropanation and Aziridination Catalyzed by Copper(II) bis(oxazoline) Anchored onto Mesoporous Materials
Polyhedron 79 (2014) 315–323.
(doi: [10.1016/j.poly.2014.05.025](https://doi.org/10.1016/j.poly.2014.05.025))

AI 127. João Pires, Ana C. Fernandes, Divakar Duraiswami
Synthesis of Novel Hierarchical ZSM-5 Monoliths and their Application in Trichloroethylene Removal
Chinese Journal of Catalysis 35 (2014) 1492–1496.
(doi: [10.1016/S1872-2067\(14\)60085-1](https://doi.org/10.1016/S1872-2067(14)60085-1))

AI 126. Moisés Pinto, Ana Fernandes, João Rocha, Artur Ferreira, Fernando Antunes, João Pires
Cu²⁺ and Co²⁺ Microporous Titanosilicate ETS-4 for Storage and Slow Release of Therapeutic Nitric Oxide
Journal of Materials Chemistry B - Materials for Biology and Medicine, 2 (2014) 224-230.
(doi: [10.1039/C3TB20929F](https://doi.org/10.1039/C3TB20929F))

AI 125. João Pires
Nanoporous Materials: Pillared Clays and Regular Silicas as an Example of Synthesis and Their Porosity Characterization by X-Ray Diffraction
Química Nova 37 (2014) 168-170

AI 124. Moisés L. Pinto, Ana C. Fernandes, João Rocha, Artur Ferreira, Fernando Antunes, João Pires
Cu²⁺ and Co²⁺ Microporous Titanosilicate ETS-4 for Storage and Slow Release of Therapeutic Nitric Oxide
Journal of Materials Chemistry B - Materials for Biology and Medicine, in press.
(IF = 6.1; Q1)
(doi: 10.1039/b802067c)

AI 123. João Pires
Nanoporous Materials: Pillared Clays and Regular Silicas as an Example of Synthesis and Their Porosity Characterization by X-Ray Diffraction
Química Nova (2013), in press

AI 122. Ana C. Fernandes, Fernando Antunes, João Pires
Sepiolite Based Materials for Storage and Slow Release of Nitric Oxide
New Journal of Chemistry (2013), in press.
(doi: 10.1039/c3nj00452j)

AI 121. Ana Silva, Liliana Carneiro, Ana Carvalho, João Pires
Asymmetric Benzoylation of Hydrobenzoin by Copper(II)bis(oxazoline) Anchored onto Ordered Mesoporous Silicas and their Carbon Replicas
Catalysis Science & Technology 3 (2013) 2415-2424. (IF = 3.7; Q1)
(doi: 10.1039/c3cy00232b)

AI 120. Ana Silva, Vanessa Guimarães, Liliana Carneiro, Nelson Nunes, Susana Borges, João Pires, Ângela Martins, Ana Carvalho
Copper(II) aza-bis(Oxazoline) Complex Immobilized onto ITQ-2 and MCM-22 Based Materials as Heterogeneous Catalysts for the Cyclopropanation of Styrene
Microporous and Mesoporous Materials 179 (2013) 231–241. (IF = 3.4; Q1)
(doi: [10.1016/j.micromeso.2013.05.029](https://doi.org/10.1016/j.micromeso.2013.05.029))

AI 119. Ana Fernandes, Moisés Pinto, Fernando Antunes, João Pires

Clay Based Materials for Storage and Therapeutic Release of Nitric Oxide
Journal of Materials Chemistry B - Materials for Biology and Medicine 1 (2013) 3287-3294
(IF = 6.1; Q1)
(doi: [10.1039/c3tb20535e](https://doi.org/10.1039/c3tb20535e))

AI 118. Carlos Granadeiro, Patrícia Silva, Vipin Saini, Filipe Paz, João Pires, Luís Cunha-Silva, Salete Balula
Novel heterogeneous catalysts based on Lanthanopolyoxometalates supported on MIL-101(Cr)
Catalysis Today (2013), in press (IF = 3.0; Q1)
(doi: [10.1016/j.cattod.2013.03.042](https://doi.org/10.1016/j.cattod.2013.03.042))

AI 117. Salete Balula, Luís Cunha-Silva, Isabel Santos, Ana Estrada, Ana Fernandes, José Cavaleiro, João Pires, Cristina Freire, Ana Cavaleiro
Mono-Substituted Silicotungstates as Active Catalysts for Sustainable Oxidations: Homo- and Heterogeneous Performance
New Journal of Chemistry 37 (2013) 2341-2350. (IF = 3.0; Q2)
(doi: [10.1039/c3nj00243h](https://doi.org/10.1039/c3nj00243h))

AI 116. Moisés Pinto, Sandra Dias, João Pires
Composite MOF foams: the example of UiO-66/polyurethane
ACS Applied Materials and Interfaces 5 (2013) 2360-2363. (IF = 5.0; Q1)
(doi: [10.1021/am303089g](https://doi.org/10.1021/am303089g))

AI 115. Vipin Saini, Moisés Pinto, João Pires
Synthesis and Adsorption Properties of Micro/Mesoporous Carbon-Foams Prepared from Foam Shaped Sacrificial Templates
Materials Chemistry and Physics 138 (2013) 877-885. (IF = 2.4; Q2)
(doi: [10.1016/j.matchemphys.2012.12.077](https://doi.org/10.1016/j.matchemphys.2012.12.077))

AI 114. Carlos Granadeiro; André Barbosa; Patricia Silva; Filipe Paz; Vipin Saini; João Pires; Baltazar de Castro; Salete Balula; Luís Cunha-Silva
Monovacant Polyoxometalates Incorporated into MIL-101(Cr): Novel Heterogeneous Catalysts for Liquid Phase Oxidation
Applied Catalysis A: General 453 (2013) 316-326. (IF = 3.4; Q1)
(doi: [10.1016/j.apcata.2012.12.039](https://doi.org/10.1016/j.apcata.2012.12.039))

AI 113. Ana R. Silva, Vanessa Guimarães, Ana Carvalho, João Pires
The Role of the Support Properties in the Catalytic Performance of an Anchored Copper(II) aza-bis(Oxazoline) in Mesoporous Silicas and their Carbon Replicas
Catalysis Science & Technology 3 (2013) 659-672. (IF = 3.8; Q1)
(doi: [10.1039/c2cy20638b](https://doi.org/10.1039/c2cy20638b))

AI 112. João Pires, Beatriz Brasil, M. Eduarda Araújo
Reduction of Free Fatty Acids in Acidic Non Edible Oils by Modified K10 Clay
Journal of the American Oil Chemists Society 90 (2013) 555-561. (IF = 1.6; Q2)
(doi: [10.1007/s11746-012-2192-x](https://doi.org/10.1007/s11746-012-2192-x))

AI 111. Salete Balula, Isabel Santos, Luís Cunha-Silva, Ana Carvalho, João Pires, Cristina Freire, José Cavaleiro, Baltazar de Castro, Ana Cavaleiro
Phosphotungstates as Catalysts for Monoterpenes Oxidation: Homo- and Heterogeneous Performance
Catalysis Today, 203 (2013) 95-102 (IF = 3.0; Q1)
(doi: [10.1016/j.cattod.2012.02.020](https://doi.org/10.1016/j.cattod.2012.02.020))

- AI 110.** Helena Gaspar, Marta Andrade, Clara Pereira, Ana Pereira, Susana Rebelo, João Araújo, João Pires, Ana Carvalho, Cristina Freire
Alkene Epoxidation by Manganese(III) Complexes Immobilized onto Nanostructured Carbon CMK-3
 Catalysis Today 203 (2013) 103–110. (IF = 3.0; Q1)
 (doi: [10.1016/j.cattod.2012.04.018](https://doi.org/10.1016/j.cattod.2012.04.018))
- AI 109.** Moisés L. Pinto, Jaqueline Marques, João Pires
Porous Clay Heterostructures With Zirconium for the Separation of Hydrocarbon Mixtures
 Separation and Purification Technology 98 (2012) 337–343 (IF = 2.9, Q1)
 (doi: [10.1016/j.seppur.2012.07.003](https://doi.org/10.1016/j.seppur.2012.07.003))
- AI 108.** Tarik Chafik, Abdelkader Darir, Ouafae Achak, Ana P. Carvalho, João Pires
Determination of the Heat Effects Involved During Toluene Vapor Adsorption and Desorption from Microporous Activated Carbon
 Comptes Rendus Chimie 15 (2012) 474–481 (IF = 1.9, Q2)
 (doi: [10.1016/j.crci.2012.04.001](https://doi.org/10.1016/j.crci.2012.04.001))
- AI 107.** S. Dorbes, Clara Pereira, Marta Andrade, D. Barros, A. M. Pereira, Susana Rebelo, J. P. Araújo, João Pires, Ana Carvalho, Cristina Freire
Oxidovanadium(IV) Acetylacetonate Immobilized onto CMK-3 for Heterogeneous Epoxidation of Geraniol
 Microporous and Mesoporous Materials, 160 (2012) 67–74. (IF = 3.4; Q1)
 (doi: [10.1016/j.micromeso.2012.03.041](https://doi.org/10.1016/j.micromeso.2012.03.041))
- AI 106.** Ana R. Silva, Hélio Albuquerque, Susana Borges, Renée Siegel, Luís Mafra, Ana Carvalho, João Pires
Strategies for Copper bis(oxazoline) Immobilization onto Porous Silica Based Materials
 Microporous and Mesoporous Materials, 158 (2012) 26–38. (IF = 3.4; Q1)
 (doi: [10.1016/j.micromeso.2012.02.044](https://doi.org/10.1016/j.micromeso.2012.02.044))
- AI 105.** Sara Fernandes, Marta Andrade, Conchi O. Ania, Angela Martins, João Pires, Ana Carvalho
Pt/Carbon Materials as bi-Functional Catalysts for n-Decane Hydroisomerization
 Microporous and Mesoporous Materials 163 (2012) 21–28 (IF = 3.4; Q1)
 (doi: [10.1016/j.micromeso.2012.06.041](https://doi.org/10.1016/j.micromeso.2012.06.041))
- AI 104.** Moisés Pinto, João Pires
Porous and Hybrid Clay Based Materials for Separation of Hydrocarbons
 Microporous and Mesoporous Materials 151 (2012) 403–410. (IF = 3.4; Q1)
 (doi: [10.1016/j.micromeso.2011.10.002](https://doi.org/10.1016/j.micromeso.2011.10.002))
- AI 103.** João Pires, Vipin Saini
Synthesis of Foam-Shaped Nanoporous Zeolite Material: A Simple Template-Based Method
 Journal of Chemical Education, 89 (2012) 276–279. (IF = 0.8; Q3)
 (doi: [10.1021/ed200191x](https://doi.org/10.1021/ed200191x))
- AI 102.** Judite Miranda, Ana Carvalho, João Pires
Assessment of the of Binder in Historical Mortars by Various Techniques
 Archaeometry 54 (2012) 267–277. (IF = 1.3; Q3; Citações: 0)
 (doi: [10.1111/j.1475-4754.2011.00627.x](https://doi.org/10.1111/j.1475-4754.2011.00627.x))
- AI 101.** Paula Moriones, Xabier Ríos, Jesús C. Echeverría, Julián J. Garrido, João Pires, Moisés Pinto
Hybrid Organic-Inorganic Phenyl Stationary Phases for the Gas Separation of Organic Binary Mixtures

Colloids and Surfaces A: Physicochemical and Engineering Aspects, 389 (2011) 69–75. (IF = 2.1; Q3)
(doi: [10.1016/j.colsurfa.2011.08.049](https://doi.org/10.1016/j.colsurfa.2011.08.049))

AI 100. Ana R. Silva, Hélio Albuquerque, André Fontes, Susana Borges, Ângela Martins, Ana Carvalho, João Pires
Copper Bis(oxazoline) Encapsulated in Zeolites and Its Application as Heterogeneous Catalysts for the Cyclopropanation of Styrene
Industrial & Engineering Chemistry Research 50 (2011) 11495–11501. (IF = 2.2; Q1)
(doi: [10.1021/ie201178d](https://doi.org/10.1021/ie201178d))

AI 99. Moisés L. Pinto, João Rocha, José R. B. Gomes, João Pires
Slow Release of NO by Microporous Titanosilicate ETS-4
Journal of the American Chemical Society 133 (2011) 6396–6402. (IF = 10.7; Q1)
(doi: [10.1021/ja200663e](https://doi.org/10.1021/ja200663e))

AI 98. Clara Pereira, Carolina Alves, Andreia Monteiro, Cesar Magen, André M Pereira, Alfonso Ibarra, M. R. Ibarra Garcia, P. B. Tavares, João Araújo, Ginesa Blanco, Jose Pintado, Ana Carvalho, Joao Pires, Manuel Pereira, Cristina Freire
Designing Novel Hybrid Materials by One-Pot co-Condensation: from Hydrophobic Mesoporous Silica Nanoparticles to Super-Amphiphobic Cotton Textiles
ACS Applied Materials and Interfaces, 3 (2011) 2289-2299. (IF = 5.0, Q1)
(doi: [10.1021/am200220x](https://doi.org/10.1021/am200220x))

AI 97. Vipin K. Saini, Moisés Pinto, João Pires
Natural Clay Binder Based Extrudates of Mesoporous Materials: Improved Materials for Selective Adsorption of Natural and Biogas Components
Green Chemistry 13 (2011) 1251-1259. (IF = 6.8; Q1)
(doi: [10.1039/C0GC00940G](https://doi.org/10.1039/C0GC00940G))

AI 96. Moisés Pinto, Luís Mafra, José M. Guil, João Pires, João Rocha
Adsorption and activation of CO₂ by amine-modified nanoporous materials studied by solid-state NMR and ¹³CO₂ adsorption
Chemistry of Materials 23 (2011) 1387-1395. (IF = 8.2; Q1)
(doi: [10.1021/cm1029563](https://doi.org/10.1021/cm1029563))

AI 95. João Pires, Susana Borges, Ana Carvalho, Ana Silva
Porous silicas and respective carbon replicates for adsorption and catalysis
Adsorption Science & Technology, 28 (2010) 717-725. (IF = 0.6; Q3)

AI 94. I. Kuzniarska-Biernacka, Clara Pereira, Ana Carvalho, João Pires, Cristina Freire
Epoxidation of olefins catalyzed by manganese(III) salen complexes grafted to porous heterostructured clays
Applied Clay Science 53 (2011) 195-203. (IF = 2.3; Q1; Citações: 0)
(doi: [10.1016/j.clay.2010.12.017](https://doi.org/10.1016/j.clay.2010.12.017))

AI 93. Vipin Saini, Moisés Pinto, João Pires
Characterization of hierarchical porosity in novel composite monoliths with adsorption studies
Colloids and Surfaces A: Physicochemical and Engineering Aspects 373 (2011) 158–166. (IF = 2.1; Q3; Citações: 0)
(doi: [10.1016/j.colsurfa.2010.10.047](https://doi.org/10.1016/j.colsurfa.2010.10.047))

AI 92. João Pires, Moisés Pinto, J. Guil-Pinto

Heats of adsorption from the Dubinin-Astakhov model applied to the characterization of pillared interlayered clays (PILCs)

Adsorption 17 (2011) 287-292. (IF = 1.5; Q2)

(doi: [10.1007/s10450-010-9283-5](https://doi.org/10.1007/s10450-010-9283-5))

AI 91. Vipin Saini, Moisés Pinto, João Pires

High pressure adsorption studies of ethane and ethylene on clay based adsorbent materials

Separation Science and Technology 46 (2011) 1-10. (IF = 1.2; Q2)

(doi: [10.1080/01496391003789197](https://doi.org/10.1080/01496391003789197))

AI 90. Rute Sequeiros, Fátima Portugal. Moisés Pinto, João Pires, Nuno Neng, José Nogueira
Development and Application of Stir Bar Sorptive Extraction with Polyurethane Foams for the Determination of Testosterone and Methenolone in Urine Matrices

Journal of Chromatographic Science, 49 (2011) 297-302. (IF = 0.8; Q4)

(doi: [10.1093/chrsci/49.4.297](https://doi.org/10.1093/chrsci/49.4.297))

AI 89. Vipin Saini, João Pires

Applications of Clay Based Composite Materials in Adsorptive Separation and Purification of Gases

Recent Patents on Materials Science 3 (2010) 129-139 (IF = 1.0; Q3*)

AI 88. Clara Santos, Marta Andrade, A. L. Vieira, Angela Martins, João Pires, Cristina Freire, Ana Carvalho

Templated synthesis of carbon materials mediated by porous clay heterostructures

Carbon, 48 (2010) 4049-4056. (IF = 5.9; Q1)

(doi: [10.1016/j.carbon.2010.07.010](https://doi.org/10.1016/j.carbon.2010.07.010))

AI 87. Moisés Pinto, Ana Mestre, Ana Carvalho, João Pires

Comparison of Methods to obtain Micropore Size Distributions of Carbonaceous Materials from CO₂ Adsorption Based on Dubinin-Radushkevich Isotherm

Industrial & Engineering Chemistry Research 49 (2010) 4726-4730. (IF = 2.2; Q1;)

(doi: [10.1021/ie100080r](https://doi.org/10.1021/ie100080r))

AI 86. Fátima Portugal, Moisés Pinto, João Pires, José Nogueira

Potentialities of Polyurethane Foams for Trace Level Analysis of Triazinic Metabolites in Water Matrices by Stir Bar Sorptive Extraction

Journal of Chromatography A 1217 (2010) 3707-3710. (IF = 4.6; Q1)

(doi: [10.1016/j.chroma.2010.03.044](https://doi.org/10.1016/j.chroma.2010.03.044))

AI 85. António Silva, Patrícia Adriano, Ana Magalhães, João Pires, Ana Carvalho, António Cruz, José Mirão, António Candeias

Characterization of Historical Mortars from Alentejo's Religious Buildings

International Journal of Architectural Heritage, 4 (2010) 138-154. (IF = 0.4; Q4)

(doi: [10.1080/15583050903046322](https://doi.org/10.1080/15583050903046322))

AI 84. Tiago Borrego, Marta Andrade, Moisés L. Pinto, Ana Rosa Silva, Ana Carvalho, João Rocha, Cristina Freire, João Pires

Physicochemical Characterization of Silylated Functionalized Materials

Journal of Colloid and Interface Science 344 (2010) 603-610. (IF = 3.2; Q2; Citações: 4)

(doi: [10.1016/j.jcis.2010.01.026](https://doi.org/10.1016/j.jcis.2010.01.026))

AI 83. B. Ruiz, Ivânia Cabrita, Ana Mestre, José B. Parra, João Pires, Ana Carvalho, Conchi Ania

Surface Heterogeneity Effects of Activated Carbons on the Kinetics of Paracetamol Removal from Aqueous Solution

Applied Surface Science 256 (2010) 5171-5175. (IF = 2.1; Q1)

(doi: [10.1016/j.apsusc.2009.12.086](https://doi.org/10.1016/j.apsusc.2009.12.086))

AI 82. Iwona Kuzniarska-Biernacka, Ana R. Silva, Ana P. Carvalho, João Pires, Cristina Freire

Anchoring of Chiral Manganese(III) Salen Complex onto Organo Clay and Porous Clay Heterostructure and Catalytic Activity in Alkene Epoxidation

Catalysis Letters 134 (2010) 63–71. (IF = 2.2; Q2)

(doi: [10.1007/s10562-009-0232-4](https://doi.org/10.1007/s10562-009-0232-4))

AI 81. Vipin K. Saini, Marta Andrade, Moisés L. Pinto, Ana P. Carvalho, João Pires

How the adsorption properties get changed when going from SBA-15 to its CMK-3 carbon replica

Separation and Purification Technology 75 (2010) 366–376. (IF = 2.9; Q1)

(doi: [10.1016/j.seppur.2010.09.006](https://doi.org/10.1016/j.seppur.2010.09.006))

AI 80. Célia Constâncio, Liliana Franco, Ariana Russo, Carlos Anjinho, João Pires, M. Fátima Vaz, Ana P. Carvalho

Studies on Polymeric Conservation Treatments of Ceramic Tiles with Paraloid B-72 and Two Alkoxysilanes

Journal of Applied Polymer Science, 116 (2010) 2833–2839. (IF = 1.4; Q2)

(doi: [10.1002/app](https://doi.org/10.1002/app))

AI 79. Ana Mestre, Moisés Pinto, João Pires, José Nogueira, Ana Carvalho

Effect of solution pH on the removal of clofibric acid by cork-based activated carbons

Carbon, 48 (2010) 972–980. (IF = 5.9; Q1)

(doi: [10.1016/j.carbon.2009.11.013](https://doi.org/10.1016/j.carbon.2009.11.013))

AI 78. Clara Pereira, Krzysztof Biernacki, Susana Rebelo, Alexandre Magalhães, Ana Carvalho, João Pires, Cristina Freire

Designing Heterogeneous Oxovanadium and Copper Acetylacetonate Catalysts: Effect of Covalent Immobilisation in Epoxidation and Aziridination Reactions

Journal of Molecular Catalysis A-Chemical, 312 (2009) 53–64. (IF = 3.2; Q2)

(doi: [10.1016/j.molcata.2009.07.004](https://doi.org/10.1016/j.molcata.2009.07.004))

AI 77. I. K.-Biernacka, Clara Pereira, Ana P. Carvalho, João Pires, Cristina Freire

K10-montmorillonite as Support for a Cationic Mn(III)salen Complex

Journal of the Brazilian Chemical Society, 20 (2009) 1320–1326. (IF = 1.3; Q3; Citações: 1)

(doi: [10.1590/S0103-50532009000700017](https://doi.org/10.1590/S0103-50532009000700017))

AI 76. Pankaj Das, Ana R. Silva, Ana P. Carvalho, João Pires, Cristina Freire

Organo-functionalized Mesoporous Supports for Jacobsen-type Catalyst: Laponite versus MCM-41

Journal of Materials Science 44 (2009) 2865. (IF = 2.2; Q1)

(doi: [10.1007/s10853-009-3379-x](https://doi.org/10.1007/s10853-009-3379-x))

AI 75. Vânia Paixão, C. Santos, R. Nunes, J.M. Silva, João Pires, Ana Carvalho, Angela Martins

n-Hexane hydroisomerization over composite catalysts based on BEA zeolite and mesoporous materials

Catalysis Letters, 129 (2009) 331–335. (IF = 2.2; Q2)

(doi: [10.1007/s10562-009-9850-0](https://doi.org/10.1007/s10562-009-9850-0))

AI 74. Pankaj Das, Ana Rosa Silva, Ana Carvalho, João Pires e Cristina Freire,

Enantioselective Epoxidation of Alkenes by Jacobsen Catalyst Anchored onto Aminopropyl-Functionalised Laponite, MCM-41 and FSM-16

Catalysis Letters, 129 (2009) 367–375. (IF = 2.2; Q2)

(doi: [10.1007/s10562-008-9793-x](https://doi.org/10.1007/s10562-008-9793-x))

AI 73. Bruno Jarrais, Clara Pereira, Ana Rosa Silva, Ana Carvalho, João Pires, Cristina Freire
Grafting of vanadyl acetylacetonate onto organo-hexagonal mesoporous silica and catalytic activity in the allylic epoxidation of geraniol

Polyhedron, 28 (2009) 994–1000. (IF = 1.8; Q2; Citações: 14)

(doi: [10.1016/j.poly.2008.12.049](https://doi.org/10.1016/j.poly.2008.12.049))

AI 72. Ana Mestre, João Pires, José Nogueira, José Parra, Ana Carvalho e Conchi Ania
Waste-Derived Activated Carbons for Removal of Ibuprofen from Solution: Role of Surface Chemistry and Pore Structure

Bioresource Technology 100 (2009) 1720-1726. (IF = 5.3; Q1)

(doi: [10.1016/j.biortech.2008.09.039](https://doi.org/10.1016/j.biortech.2008.09.039))

AI 71. Beatriz Cardoso, Ana Mestre, Ana Carvalho e João Pires
Activated Carbon Derived from Cork Powder Waste by KOH Activation: Preparation, Characterization and VOCs Adsorption

Industrial & Engineering Chemistry Research, 47 (2008) 5841-5846. (IF = 2.2; Q1)

(doi: [10.1021/ie800338s](https://doi.org/10.1021/ie800338s))

AI 70. Sara Fernandes, Angela Martins, João Pires, Ana Carvalho Helena Vasques
Catalytic Characterization of Pillared Clays through Toluene Methylation Reaction

Reaction Kinetics and Catalysis Letters, 95 (2008) 373-378. (IF = 0.9; Q4)

(doi: [10.1007/s11144-008-5359-6](https://doi.org/10.1007/s11144-008-5359-6))

AI 69. João Pires, Vipin Saini, and Moisés Pinto
Studies on Selective Adsorption of Biogas Components on Pillared Clays: Approach for Biogas Improvement

Environmental Science & Technology, 42 (2008) 8727-8732. (IF = 5.2; Q1; Citações: 4)

(doi: [10.1021/es8014666](https://doi.org/10.1021/es8014666))

AI 68. Pankaj Das, Ana Silva, Ana Carvalho, João Pires, Cristina Freire
Post-synthesis organo-silylation of mesostructured FSM-16 for chiral Mn(III) salen catalyst anchoring

Colloids and Surfaces A: Physicochemical and Engineering Aspects, 112 (2008) 190-197. (IF = 2.1; Q3)

(doi: [10.1016/j.colsurfa.2008.07.008](https://doi.org/10.1016/j.colsurfa.2008.07.008))

AI 67. Moisés Pinto, João Pires, João Rocha

Porous materials prepared from clays for the upgrade of landfill gas

Journal of Physical Chemistry C, 112 (2008) 14394-14402. (IF = 4.8; Q1)

(doi: [10.1021/jp803015d](https://doi.org/10.1021/jp803015d))

AI 66. Ana P. Carvalho, Maria F. Vaz, Marta M. Ferreira, João Pires

Gilded wood from the organ of the Church of Santa Cruz (Coimbra)

Journal of the Brazilian Chemical Society, 19 (2008) 1653-1658. (IF = 1.3; Q3)

(doi: [10.1590/S0103-50532008000800029](https://doi.org/10.1590/S0103-50532008000800029))

AI 65. António Cruz, João Pires, Ana P. Carvalho, Manuela Carvalho

Comparison of adsorbent materials for acetic acid removal in showcases

Journal of Cultural Heritage 9 (2008) 244-252. (IF = 1.2; Q; Citações: 1)

(doi: [10.1016/j.culher.2008.03.001](https://doi.org/10.1016/j.culher.2008.03.001))

AI 64. Fátima Vaz, João Pires, Ana Carvalho

Effect of the impregnation treatment with Paraloid B-72 on the properties of Portuguese ancient ceramic tiles

Journal of Cultural Heritage 9 (2008) 269-276. (IF = 1.2; Q3; Citações: 9)
(doi: [10.1016/j.culher.2008.01.003](https://doi.org/10.1016/j.culher.2008.01.003))

AI 63. Clara Pereira, Ana R. Silva, Ana Carvalho, João Pires e Cristina Freire
Vanadyl acetylacetonate anchored onto amine-functionalised clays and catalytic activity in the epoxidation of geraniol

Journal of Molecular Catalysis A-Chemical, 283 (2008) 5-14. (IF = 3.2; Q2; Citações: 24)
(doi: [10.1016/j.molcata.2007.11.034](https://doi.org/10.1016/j.molcata.2007.11.034))

AI 62. João C. Alonso, Patrícia Neves, Carlos Silva, Anabela A. Valente, Paula Brandão, Susana Quintal, Maria J. Villa de Brito, Patrícia Pinto, Vítor Félix, M. G. B. Drew, João Pires, Ana P. Carvalho, Maria J. Calhorda, Paula Ferreira

Immobilisation of η^3 -Allyldicarbonyl Complexes of MoII with Bidentate Nitrogen Ligands within Aluminium-Pillared Clays

European Journal of Inorganic Chemistry, (2008) 1147-1156. (IF = 3.1; Q2; Citações: 6)
(doi: [10.1002/ejic.200700939](https://doi.org/10.1002/ejic.200700939))

AI 61. João Pires, Moisés Pinto, Juncal Estella e Jesús C. Echeverría
Characterization of the Hydrophobicity of Mesoporous Silicas and Clays with Silica Pillars by Water Adsorption and DRIFT

Journal of Colloid and Interface Science 317 (2008) 206-213. (IF = 3.2; Q2; Citações: 14)
(doi: [10.1016/j.jcis.2007.09.035](https://doi.org/10.1016/j.jcis.2007.09.035))

AI 60. Carla Nunes, João Pires, Ana Carvalho, Maria J. Calhorda e Paula Ferreira
Synthesis and Characterisation of Organo-Silica Hydrophobic Clay Heterostructures for Volatile Organic Compounds Removal

Microporous and Mesoporous Materials, 111 (2008) 612-619. (IF = 3.4; Q1; Citações: 17)
(doi: [10.1016/j.micromeso.2007.09.008](https://doi.org/10.1016/j.micromeso.2007.09.008))

AI 59. João Pires, Maria Bestilleiro, Moisés Pinto, Antonio Gil
Selective Adsorption of Carbon Dioxide, Methane and Ethane by Porous Clays Heterostructures

Separation and Purification Technology 61 (2008) 161-167. (IF = 2.9; Q1; Citações: 9)
(doi: [10.1016/j.seppur.2007.10.007](https://doi.org/10.1016/j.seppur.2007.10.007))

AI 58. K.-Biernacka, Ana Silva, Ana Carvalho, João Pires e Cristina Freire
Direct Immobilisation versus Covalent Attachment of a Mn(III)salen Complex onto an Al-Pillared Clay and Influence in the Catalytic Epoxidation of Styrene

Journal of Molecular Catalysis A-Chemical 278 (2007) 82-91. (IF = 3.2; Q2; Citações: 13)
(doi: [10.1016/j.molcata.2007.08.022](https://doi.org/10.1016/j.molcata.2007.08.022))

AI 57. Clara Pereira, Sónia Patrício, Ana Silva, Alexandre Magalhães, Ana Carvalho, João Pires e Cristina Freire

Copper Acetylacetonate Anchored onto Amine-Functionalised Clays

Journal of Colloid and Interface Science 316 (2007) 570-579. (IF = 3.2; Q2; Citações: 23)
(doi: [10.1016/j.jcis.2007.07.053](https://doi.org/10.1016/j.jcis.2007.07.053))

AI 56. João Pires e António Cruz

Techniques of Thermal Analysis Applied to the Study of Cultural Heritage

Journal of Thermal Analysis and Calorimetry, 87 (2007) 411-415. (IF = 1.9; Q2; Citações: 14)
(doi: [10.1007/s10973-004-6775-0](https://doi.org/10.1007/s10973-004-6775-0))

- AI 55.** David Jerónimo, J. M. Guil, B. Corbella, Helena Vasques, Adelaide Miranda, João Silva, Alda Lobato, João Pires e Ana Carvalho
Acidity Characterization of Pillared Clays through Microcalorimetric Measurements and Catalytic Ethylbenzene Test Reaction
 Applied Catalysis A-General, 330 (2007) 89-95. (IF = 3.4; Q1; Citações: 9)
 (doi: [10.1016/j.apcata.2007.07.013](https://doi.org/10.1016/j.apcata.2007.07.013))
- AI 54.** Ana Mestre, João Pires, José Nogueira e Ana Carvalho
Activated Carbons for the Adsorption of Ibuprofen
 Carbon, 45 (2007) 1979-1988. (IF = 5.9; Q1 Citações: 37)
 (doi: [10.1016/j.carbon.2007.06.005](https://doi.org/10.1016/j.carbon.2007.06.005))
- AI 53.** Nuno Neng, Moisés Pinto, João Pires, Paula Marcos e José Nogueira
Development, Optimisation and Applications of Polyurethane Foams as New Polimeric Phases for Stir Bar Sorptive Extraction
 Journal of Chromatography A, 1171 (2007) 8–14. (IF = 4.6; Q1; Citações: 33)
 (doi: [10.1016/j.chroma.2007.09.033](https://doi.org/10.1016/j.chroma.2007.09.033))
- AI 52.** Ana Carvalho, Ana Mestre, João Pires Moisés Pinto e Emília Rosa
Granular activated carbons from powdered samples using clays as binders for the adsorption of organic vapours
 Microporous and Mesoporous Materials, 93 (2006) 226-231. (IF = 3.4; Q1; Citações: 12)
 (doi: [10.1016/j.micromeso.2006.03.001](https://doi.org/10.1016/j.micromeso.2006.03.001))
- AI 51.** Rabii Mahboub, Yassine El-Mouzadahir, Abdellah Elmchaouri, Ana Carvalho, Moisés Pinto e João Pires
Characterization of a Delaminated Clay and Pillared Clays by Adsorption of Probe Molecules
 Colloids and Surfaces A: Physicochemical and Engineering Aspects, 280 (2006) 81-87. (IF = 2.1; Q3; Citações: 12)
 (doi: [10.1016/j.colsurfa.2006.01.036](https://doi.org/10.1016/j.colsurfa.2006.01.036))
- AI 50.** João Pires, Ana Carvalho, Moisés Pinto e João Rocha
Characterization of Y Zeolites Dealuminated by Solid-State Reaction with Ammonium Hexafluorosilicate
 Journal of Porous Materials, 13 (2006) 107-114. (IF = 1.4; Q2; Citações: 7)
 (doi: [10.1007/s10934-006-7005-x](https://doi.org/10.1007/s10934-006-7005-x))
- AI 49.** Pankaj Das, I. K.-Biernacka, Ana Silva, Ana Carvalho, João Pires e Cristina Freire
Encapsulation of Chiral Mn(III)salen complexes into aluminium Pillared Clays: Application as Heterogeneous Catalysts in the Epoxidation of Styrene
 Journal of Molecular Catalysis A-Chemical, 248 (2006) 135-143. (IF = 3.2; Q2; Citações: 23)
 (doi: [10.1016/j.molcata.2005.12.023](https://doi.org/10.1016/j.molcata.2005.12.023))
- AI 48.** Moisés Pinto, João Pires, Ana Carvalho, Manuela Carvalho e João Bordado
Synthesis and Regeneration of Polyurethane/Adsorbent Composites and their Characterization by Adsorption Methods
 Microporous and Mesoporous Materials, 89 (2006) 260-269. (IF = 3.4; Q1; Citações: 6)
 (doi: [10.1016/j.micromeso.2005.10.035](https://doi.org/10.1016/j.micromeso.2005.10.035))
- AI 47.** Moisés Pinto, João Pires, Ana Carvalho e Manuela Carvalho
On the Difficulties of Predicting the Adsorption of Volatile Organic Compounds at Low Pressures in Microporous Solids: The Example of Ethyl Benzene
 Journal of Physical Chemistry B, 110 (2006) 250-257. (IF = 3.6; Q2; Citações: 10)
 (doi: [10.1021/jp0534380](https://doi.org/10.1021/jp0534380))

- AI 46.** Nuno Correia, João Bordado, João Pires, Manuela Carvalho, Ana Carvalho, Moisés Pinto
Open Cell Polyurethane Foams for New Filters with Supported Adsorbents
 Materials Science Forum, 514-516 (2006) 892-896. (IF = 0.4; Q3*; Citações: 0)
 (doi: [10.4028/www.scientific.net/MSF.514-516.892](https://doi.org/10.4028/www.scientific.net/MSF.514-516.892))
- AI 45.** Paula Ferreira, Carla Nunes, João Pires, Ana Carvalho, Paula Brandão e João Rocha
Hydrophobic Porous Clay Benzene-Silica Hybrid Heterostructures and their Application in the Adsorption of Volatile Organic Compounds
 Materials Science Forum, 514-516 (2006) 470-474. (IF = 0.4; Q3*; Citações: 4)
 (doi: [10.4028/www.scientific.net/MSF.514-516.470](https://doi.org/10.4028/www.scientific.net/MSF.514-516.470))
- AI 44.** Ana Carvalho, M. Fátima Vaz, Maria Samora e João Pires
Characterisation of Ceramic Pastes of Portuguese Ancient Tiles
 Materials Science Forum, 514-516 (2006) 1648-1652. (IF = 0.4; Q3*; Citações: 4)
 (doi: [10.4028/www.scientific.net/MSF.514-516.1648](https://doi.org/10.4028/www.scientific.net/MSF.514-516.1648))
- AI 43.** Fernanda Costa, António Fonseca, Isabel Neves, Ana Carvalho e João Pires
Immobilization of Hydride Tungsten Complex in Microporous Structures
 Materials Science Forum, 514-516 (2006) 1196-1200. (IF = 0.4; Q3*; Citações: 1)
 (doi: [10.4028/www.scientific.net/MSF.514-516.1196](https://doi.org/10.4028/www.scientific.net/MSF.514-516.1196))
- AI 42.** António Cruz, João Pires, Ana Carvalho e Manuela Carvalho
Physical Adsorption of H₂S Related to the Conservation of Works of Art: the Role of the Pore Structure at low Relative Pressure
 Adsorption, 11 (2005) 569-576. (IF = 1.5; Q2; Citações: 5)
 (doi: [10.1007/s10450-005-5614-3](https://doi.org/10.1007/s10450-005-5614-3))
- AI 41.** I. K.-Biernacka, Ana Silva, Ana Carvalho, João Pires e Cristina Freire
Organo-Laponites as Novel Mesoporous Supports for Manganese(III) salen Catalysts
 Langmuir, 21 (2005) 10825-10834. (IF = 4.2; Q1; Citações: 13)
 (doi: [10.1021/la051619n](https://doi.org/10.1021/la051619n))
- AI 40.** Helena Vasques, Adelaide Miranda, Ângela Martins, João Silva, Alda Lobato, João Pires e Ana Carvalho
Toluene Methylation over Pillared Clays with Al, Zr and Al/Zr Oxides
 Studies in Surface Science and Catalysis, vol. 158, (2005) 1469-1476. (Q4*; Citações: 2)
 (doi: [10.1016/S0167-2991\(05\)80499-9](https://doi.org/10.1016/S0167-2991(05)80499-9))
- AI 39.** Beatriz Cardoso, João Pires, Ana Carvalho, I. K.-Biernacka, Ana Silva. Baltazar de Castro e Cristina Freire
Mn(III) salen Complex Immobilised into Pillared Clays by in situ and Simultaneous Pillaring/Encapsulation Procedures. Application in the Heterogeneous Epoxidation of Styrene
 Microporous and Mesoporous Materials, 86 (2005) 295-302. (IF = 3.4; Q1; Citações: 16)
 (doi: [10.1016/j.micromeso.2005.07.014](https://doi.org/10.1016/j.micromeso.2005.07.014))
- AI 38.** Moisés L. Pinto, João Pires, Ana P. Carvalho, Manuela B. Carvalho, João C. Bordado
Characterization of adsorbent materials supported on polyurethane foams by nitrogen and toluene adsorption
 Microporous and Mesoporous Materials, 80 (2005) 253-262. (IF = 3.4; Q1; Citações: 7)
 (doi: [10.1016/j.micromeso.2004.12.020](https://doi.org/10.1016/j.micromeso.2004.12.020))
- AI 37.** Beatriz Cardoso, João Pires, Ana P. Carvalho, Manuela Carvalho, I. K.-Biernacka, Ana R. Silva, Cristina Freire, Baltazar de Castro

Catalytic Properties of a Mn(III) salen Complex Immobilised in a Pillared Clay by Simultaneous Pillaring/ Encapsulation Procedures
European Journal of Inorganic Chemistry, (2005) 837-844. (IF = 3.1; Q2; Citações: 11)
(doi:[10.1002/ejic.200400521](https://doi.org/10.1002/ejic.200400521))

AI 36. João Pires, Ana C. Araújo, Ana P. Carvalho, Moisés L. Pinto, J.M. González-Calbet, J. Ramírez-Castelhanos
Porous Materials from Clays by the Gallery Template Approach: Synthesis, Characterization and Adsorption Properties
Microporous and Mesoporous Materials, 73 (2004) 175-180. (IF = 3.4; Q1; Citações: 31)
(doi:[10.1016/j.micromeso.2004.05.009](https://doi.org/10.1016/j.micromeso.2004.05.009))

AI 35. Moisés L. Pinto, João Pires, Ana P. Carvalho, Manuela B. Carvalho, João C. Bordado
Sorption Isotherms of Organic Vapors on Polyurethane Foams
Journal of Physical Chemistry B, 108 (2004) 13813-13820. (IF = 3.6; Q2; Citações: 7)
(doi:[10.1021/jp048551p](https://doi.org/10.1021/jp048551p))

AI 34. I. K.-Biernacka, Ana R. Silva, Rita Ferreira, Ana P. Carvalho, João Pires, Manuela B. Carvalho, Cristina Freire, Baltasar de Castro
Epoxidation of Styrene by a Manganese(III) salen Complex Encapsulated in an Aluminium Pillared Clay
New Journal of Chemistry, 28 (2004) 853-858. (IF = 2.9; Q2; Citações: 17)
(doi:[10.1039/b401830c](https://doi.org/10.1039/b401830c))

AI 33. Fernanda Costa, Carlos J. R. Silva, M. Raposo, António M. Fonseca, Isabel C. Neves, Ana P. Carvalho, João Pires
Synthesis and Immobilization of Molybdenum Complexes in a Pillared Layered Clay
Microporous and Mesoporous Materials, 72 (2004) 111-118. (IF = 3.4; Q1; Citações: 23)
(doi:[10.1016/j.micromeso.2004.04.003](https://doi.org/10.1016/j.micromeso.2004.04.003))

AI 32. Ana P. Carvalho, Carla Castanheira, Beatriz Cardoso, João Pires, Ana R. Silva, Cristina Freire, Baltasar de Castro, Manuela B. Carvalho
Simultaneous Aluminium Oxide Pillaring and Copper(II) Schiff Base Complexes Encapsulation in a Montmorillonite
Journal of Materials Chemistry, 14 (2004) 374-379. (IF = 5.9; Q1; Citações: 37)
(doi:[10.1039/b307226f](https://doi.org/10.1039/b307226f))

AI 31. Moisés L. Pinto, João Pires, Ana P. Carvalho, João C. M. Bordado, Manuela B. Carvalho
Synthesis and Characterization of Polyurethane Foams Matrixes for Support of Granular Adsorbent Materials
Journal of Applied Polymer Science, 92 (2004) 2045-2053. (IF = 1.4; Q2; Citações: 7)
(doi: [10.1002/app.20156](https://doi.org/10.1002/app.20156))

AI 30. Ana P. Carvalho, Marta Gomes, Ana S. Mestre, João Pires, Manuela B. Carvalho
Activated Carbons from Cork Waste by Chemical Activation with K₂CO₃. Application to Adsorption of Natural Gas Components
Carbon, 42 (2004) 667-691. (IF = 5.9; Q1; Citações: 15)
(doi:[10.1016/j.carbon.2003.12.075](https://doi.org/10.1016/j.carbon.2003.12.075))

AI 29. João Pires, Joana Francisco, Ana P. Carvalho, Manuela B. Carvalho, Ana R. Silva, Cristina Freire, Baltasar de Castro
Development of Novel Pillared Clays for the Encapsulation of Inorganic Complexes
Langmuir, 20 (2004), 2861-2866. (IF = 4.2; Q1; Citações: 11)
(doi:[10.1021/la0357209](https://doi.org/10.1021/la0357209))

- AI 28.** Fernanda Costa, Carlos R. J. Silva, António M. Fonseca, Isabel C. Neves, Ana P. Carvalho, João Pires, Manuela B. Carvalho
Preparation of New Materials Containing Diazoalcene Molybdenum Complexes in Pillared Clays
 Materials Science Forum, 455-456 (2004) 569-572. (IF = 0.4; Q3*; Citações: 0)
 (doi: [10.4028/www.scientific.net/MSF.455-456.569](https://doi.org/10.4028/www.scientific.net/MSF.455-456.569))
- AI 27.** António J. Cruz, João Pires, Ana P. Carvalho, Manuela B. Carvalho
Adsorption of Acetic Acid by Activated Carbons, Zeolites and other Adsorbent Materials Related with the Preventive Conservation of Lead Objects in Museums Showcases
 Journal of Chemical and Engineering Data, 49 (2004) 725-731. (IF = 2.0; Q2; Citações: 3)
 (doi: [10.1021/jc034273w](https://doi.org/10.1021/jc034273w))
- AI 26.** Angela Martins, Ana Carvalho, João Silva, João Pires, Helena Vasques, Manuela B. Carvalho
Characterization of the acidity of Al- and Zr-pillared clays
 Clays and Clay Minerals, 51 (2003) 340-349. (IF = 1.1; Q3; Citações: 11)
 (doi: [10.1346/CCMN.2003.0510311](https://doi.org/10.1346/CCMN.2003.0510311))
- AI 25.** Ana Carvalho, Patrícia Veloso, João Pires, Manuel Machado, Manuela B. Carvalho, João Rocha
Nitrate Occlusion Studies in Y Zeolite and in a Clay Pillared with Aluminium Oxide
 Microporous and Mesoporous Materials, 58 (2003) 163. (IF = 3.4; Q1, Citações: 4)
 (doi: [10.1016/S1387-1811\(02\)00625-X](https://doi.org/10.1016/S1387-1811(02)00625-X))
- AI 24.** João Pires, Moisés Pinto, Ana Carvalho, Manuela B. Carvalho
Adsorption of Acetone, Methyl Ethyl Ketone, 1,1,1-Trichloroethane and Trichloroethylene in Granular Activated Carbons
 Journal of Chemical Engineering Data, 48 (2003) 416-420. (IF = 2.0; Q2; Citações: 6)
 (doi: [10.1007/s10450-005-5614-3](https://doi.org/10.1007/s10450-005-5614-3))
- AI 23.** João Pires, Moisés Pinto, Ana Carvalho, Manuela B. Carvalho
Assessment of Hydrophobic-Hydrophilic Properties of Microporous Materials from Water Adsorption Isotherms
 Adsorption, 9 (2003) 303-309. (IF = 1.5; Q2; Citações: 21)
 (doi: [10.1023/A:1026219813234](https://doi.org/10.1023/A:1026219813234))
- AI 22.** Ana Carvalho, Beatriz Cardoso, João Pires, Manuela B. Carvalho
Preparation of Activated Carbons from Cork Waste by Chemical Activation with KOH
 Carbon, 41 (2003) 2873-2876. (IF = 5.9; Q1; Citações: 22)
 (doi: [10.1016/S0008-6223\(03\)00323-3](https://doi.org/10.1016/S0008-6223(03)00323-3))
- AI 21.** João Pires, Moisés Pinto, Ana Carvalho, Manuela B. de Carvalho
Adsorption of Volatile Organic Compounds in Pillared Clays: Estimation of the Separation Factor by a Method Derived from the D-R Equation
 Langmuir, 19 (2003) 7941-7943. (IF = 4.2; Q1; Citações: 6)
 (doi: [10.1021/la030086k](https://doi.org/10.1021/la030086k))
- AI 20.** J.M. Guil, J.A. Perdigón-Melón, Manuela Carvalho, Ana Carvalho, João Pires,
Adsorption Microcalorimetry of Probe Molecules of Different Size to Characterize the Microporosity of Pillared Clays
 Microporous and Mesoporous Materials, 51 (2002) 145-154. (IF = 3.4; Q1; Citações: 10)
 (doi: [10.1016/S1387-1811\(01\)00477-2](https://doi.org/10.1016/S1387-1811(01)00477-2))
- AI 19.** João Pires, Ana Carvalho, Patrícia Veloso, Manuela B. Carvalho
Preparation of Dealuminated Faujasites for Adsorption of Volatile Organic Compounds

Journal of Materials Chemistry, 12 (2002) 3100-3104. (IF = 5.9; Q1; Citações: 12)
(doi: [10.1039/b205367e](https://doi.org/10.1039/b205367e))

AI 18. Rita Ferreira, Cristina Freire, Baltasar de Castro, Ana Carvalho, João Pires, Manuela B. Carvalho

Encapsulation of Copper(II) Complexes with Pentadentate N3O2 Schiff Base Ligands in a Pillared Layered Clay

European Journal of Inorganic Chemistry, (2002) 3032-3038. (IF = 3.1; Q2; Citações: 15)
(doi: [10.1002/1099-0682\(200211\)2002:11<3032::AID-EJIC3032>3.0.CO;2-5](https://doi.org/10.1002/1099-0682(200211)2002:11<3032::AID-EJIC3032>3.0.CO;2-5))

AI 17. João Pires, Ana Carvalho, Manuela B. Carvalho

Adsorption of Volatile Organic Compounds (VOCs) in Y Zeolites and Pillared Clays

Microporous and Mesoporous Materials, 43 (2001) 277-287. (IF = 3.4; Q1; Citações: 67)
(doi: [10.1016/S1387-1811\(01\)00207-4](https://doi.org/10.1016/S1387-1811(01)00207-4))

AI 16. Paulo Pereira, João Pires, Manuela B. Carvalho

Adsorption of Methane and Ethane in Zirconium Oxide Pillared Clays

Separation and Purification Technology 21 (2001) 237-246. (IF = 2.9; Q1; Citações: 12)
(doi: [10.1016/S1383-5866\(00\)00206-9](https://doi.org/10.1016/S1383-5866(00)00206-9))

AI 15. João Pires, Manuela B. de Carvalho, Ana P. Carvalho, J.M. Guil, J.A.P. Melón

Heats of Adsorption of n-Hexane by Thermal Gravimetry with Differential Scanning Calorimetry (TG-DSC): a Tool for Textural Characterization of Pillared Clays

Clays and Clay Minerals 48 (2000) 385-391. (IF = 1.1; Q3; Citações: 10)
(doi: [10.1346/CCMN.2000.0480309](https://doi.org/10.1346/CCMN.2000.0480309))

AI 14. João Pires, Manuel Machado, Manuela B. de Carvalho

Porosity and Thermal Stability of PILCs Prepared with Calys from Different Origins and Different Metal-Polyhydroxycationic Species of Al and Ce

Journal of Materials Chemistry, 8(6) (1998) 1465-1469. (IF = 5.9; Q1; Citações: 14)
(doi: [10.1039/A800891D](https://doi.org/10.1039/A800891D))

AI 13. João Pires, Ana Carvalho, Paulo Pereira, Manuela B. Carvalho

Acidity Studies on Pillared Clays (PILCs) by Pyridine Adsorption and 1-Butanol Dehydration

Reaction Kinetics and Catalysis Letters, 65 (1998) 9-15. (IF = 0.9; Q4; Citações: 6)
(doi: [10.1007/BF02475309](https://doi.org/10.1007/BF02475309))

AI 12. Paulo Pereira, João Pires, Manuela B. Carvalho

Zirconium Pillared Clays for CH₄/CO₂ Separation. Part I: Preparation of Adsorbent Materials and Pure Gases Adsorption

Langmuir, 14 (1998) 4584-4588. (IF = 4.2; Q1; Citações: 42)
(doi: [10.1021/la980209e](https://doi.org/10.1021/la980209e))

AI 11. Ana Carvalho, Manuela B. de Carvalho, João Pires

Degree of Crystallinity of Dealuminated Offretites Determined by X-Ray Diffraction and Nitrogen Adsorption

Zeolites, 19 (1997) 382-386. (actualmente Microporous and Mesoporous Materials, IF = 3.4; Q1; Citações: 10)
(doi: [10.1016/S0144-2449\(97\)00101-2](https://doi.org/10.1016/S0144-2449(97)00101-2))

AI 10. João Pires, Manuela B. Carvalho

Adsorption Studies of neo-Pentane in Y and ZSM-20 Zeolites

Langmuir, 13 (1997) 3584-3586. (IF = 4.2; Q1; Citações: 2)
(doi: [10.1021/la970074x](https://doi.org/10.1021/la970074x))

AI 9. João Pires, Manuela B. Carvalho

Water Adsorption in Aluminium Pillared Clays and Zeolites

Journal of Materials Chemistry, 7(9) (1997) 1901-1904. (IF = 5.9; Q1; Citações: 11)

(doi: [10.1039/A701974B](https://doi.org/10.1039/A701974B))

AI 8. João Pires, Manuela B. Carvalho, Ana Carvalho

Aluminium Pillared Clays: Decomposition of the Intercalating Species and Textural Properties

Zeolites, 19 (1997) 107-113. (actualmente Microporous and Mesoporous Materials, IF = 3.4; Q1; Citações: 36)

(doi: [10.1016/S0144-2449\(97\)00054-7](https://doi.org/10.1016/S0144-2449(97)00054-7))

AI 7. Manuela B. Carvalho, João Pires, Ana Carvalho

Characterization of Clays and Aluminium Pillared Clays by Adsorption of Probe Molecules

Microporous Materials, 6 (1996) 65-77. (actualmente Microporous and Mesoporous Materials, IF = 3.4; Q1; Citações: 52)

(doi: [10.1016/0927-6513\(95\)00089-5](https://doi.org/10.1016/0927-6513(95)00089-5))

AI 6. João Pires, Manuela B. de Carvalho, F. Ramôa Ribeiro, Eric Derouane

Fe(CO)₅ in Y and ZSM-20 Zeolites: Adsorption and Textural Properties of Thermally Decomposed Products

Microporous Materials, 3 (1995) 573-580. (actualmente Microporous and Mesoporous Materials, IF = 3.4; Q1; Citações: 5)

(doi: [10.1016/0927-6513\(94\)00072-4](https://doi.org/10.1016/0927-6513(94)00072-4))

AI 5. João Pires, Manuela B. de Carvalho, F. Ramôa Ribeiro, J. B. Nagy, Eric Derouane

Xenon Adsorption Studies on Faujasite-like Zeolites. Low Temperature ¹²⁹Xe-NMR and Room Temperature Isotherms

Applied Catalysis A-General, 95 (1993) 75-86. (IF = 3.4; Q1; Citações: 8)

(doi: [10.1016/0926-860X\(93\)80198-Y](https://doi.org/10.1016/0926-860X(93)80198-Y))

AI 4. João Pires, Manuela B. Carvalho, F. Ramôa Ribeiro, Eric Derouane

Carbon Dioxide in Y and ZSM-20 Zeolites: Adsorption and Infrared Studies

Journal of Molecular Catalysis, 85 (1993) 295-303. (IF = 3.2; Q2; Citações: 20)

(doi: [10.1016/0304-5102\(93\)80057-2](https://doi.org/10.1016/0304-5102(93)80057-2))

AI 3. João Pires, Manuela B. Carvalho, F. Ramôa Ribeiro, Eric Derouane

Textural Characteristics of Y and ZSM-20 Zeolites Determined by Nitrogen Adsorption

Zeolites, 11 (1991) 345-348. (actualmente Microporous and Mesoporous Materials, IF = 3.4; Q1; Citações: 15)

(doi: [10.1016/0144-2449\(91\)80298-E](https://doi.org/10.1016/0144-2449(91)80298-E))

AI 2. João Pires, Manuela B. Carvalho, F. Ramôa Ribeiro, Eric Derouane

Silicoaluminophosphate Molecular Sieves: Characterization of Textural and Acidic Properties

Reaction Kinetics and Catalysis Letters, 43, 313-319 (1991). (IF = 0.9; Q4; Citações: 4)

(doi: [10.1007/BF02064691](https://doi.org/10.1007/BF02064691))

AI 1. João Pires, Manuela B. Carvalho, F. Ramôa Ribeiro, Eric Derouane

Heats of Adsorption and Mass Transfer Coefficients of Alkanes in Zeolites Y and ZSM-20

Applied Catalysis, 53 (1989) 273-277. (IF = 3.2; Q2; Citações: 12)

(doi: [10.1016/S0166-9834\(00\)80026-3](https://doi.org/10.1016/S0166-9834(00)80026-3))

Patent Applications

P9. Fernando Antunes, Fadhil Musa, João Pires

Readily Vaporized Hydrogen Peroxide Formulations and Uses Thereof

PT 2016/109522 S, (2016)

P8. João Pires, Ana Carvalho, Ana Silva

Asymmetric heterogeneous catalysts based on copper(II) bis(oxazoline) immobilised onto porous supports

PT2013/107066, (2013)

P7. João Pires, Vipin Saini, Moisés Pinto

Carbon Foam and a Process of Making the Same

PT2011/105753, (2011)

P6. Moisés Pinto, João Pires, João Bordado, António Barata, José Valente

Polyurethane Filters For Air Purification

United States Patent US 2011/0034579 A1, (2011)

P5. Moisés Pinto, João Pires, João Bordado, António Barata, José Valente

Polyurethane Filters For Air Purification

China Patent CN 101998973 A1, (2011)

P4. Moisés Pinto, João Pires, João Bordado, António Barata, José Valente

Polyurethane Filters For Air Purification

European Patent EP 2274368 A1, (2009)

P3. Moisés Pinto, João Pires, João Bordado, António Barata, José Valente

Polyurethane Filters For Air Purification

Canada Patent CA 2720060 A1, (2009)

P2. Moisés Pinto, João Pires, João Bordado, António Barata, José Valente

Polyurethane Filters For Air Purification

WO 2009/123484 A1, (2009)

P1. João Pires, Manuela Carvalho, Ana Carvalho

Adsorvente Microporoso Obtido a Partir de Sólidos Argilosos de Porto Santo para Processos de Desumidificação ou Descontaminação Ambiental

Portuguese Patent, N°. 102118, Boletim de Propriedade Industrial, 2, (2001)