

Surname, given name: **PÉREZ- RODRÍGUEZ, JOSÉ LUIS**

Current Position: **PROFESSOR**

Place of Employment: **MATERIAL SCIENCE INSTITUTE OF SEVILLE (SPANISH NATIONAL RESEARCH COUNCIL- UNIVERSITY OF SEVILLE)**

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Education:

- Bachelor and MS in Chemical Science. University of Seville
- PhD. University of Seville

Experience:

- Assistant professor at the inorganic chemistry department. University of Seville. 1964-1967.
- Fellowship-holder of the Spanish National Research Council (CSIC). 1964-1966
- Research associate at the Macaulay Institute, Aberdeen, UK. August 1967-September 1968. **Supervisor: Professor R. C. Mackenzie. Supported by the British Council.**
- Scientist at CSIC. December 1967-May 1970
- Visiting professor at the Department of Inorganic Chemistry, Munich (Germany) September 1973-August 1974. Working with Professors **A. Weiss and G. Lagaly. Supported by Deutsche Forschungsgemein**
- Senior Researcher at CSIC. 1970-84.
- Professor. 1984-to date.
- Advisor of 17 Doctoral Thesis.
- It has taken part in an important number of National and International Congresses, as organizer president, presenting invited conferences and lectures, member of scientific committees, etc.

Appointments:

- Board member of the Instituto de Edafología (Soil Institute).
- Board member of the National Association of Chemistry.
- Board member of the Spanish Clay Society
- Vice-director of the Material Science Institute of Seville.
- **Director of the Materials Science Institute of Seville**
- **President of the Spanish Clay Society.**
- Member of the Editorial Board of Clay Minerals.
- Member of the University of Seville-CSIC Join Commission.
- Liaison officer in Spain of the Association Internationale pour l'Etude des Argiles (AIPEA).

- Member of the Scientific Commission to grant the prize of Invention and Chemical Applied Investigation of the University of Seville and the García-Cabrerizo Foundation.
- Member of the Publishing Committee of Scientific Journals
- Assessor of several international Universities and Research Institutions
- Committee member for selection of candidates to the Spanish National Research Council Staff

Memberships:

- Association Internationale pour l'Étude des Argiles
- Clays and Clay Group Association
- European Clay Group Association
- International Confederation for Thermal Analysis and Calorimetry
- Spanish Clay Society
- Ceramics and Glass Spanish Society.
- Sociedad Española de Mineralogía (Spanish Mineralogy Society) (founder member).
- Sociedad Española de la Ciencia del Suelo (Spanish Soil Science Society)
- Sociedad Española de Materiales (Spanish Materials Society) (founder member).

Most-relevant Prizes and Awards:

- Prize of the Monte de Piedad y Caja de Ahorros de Seville (collective)
- Martín Vivaldi prize for a guided Doctoral thesis
- Domingo Martínez Foundation Prize for Research
- **Honour member of Spanish Clay Society.**

Publications and Patents: Author or co-author of **more than 270 papers and books** on his topics of research, and author of **2 patents**. Citations: ~3000.

Research Projects

PI of more than 50 research projects, contracts, and agreements with public research organisms and companies, including EU projects.

Research activities

His research topics are related to **clays and clay minerals** (thermal, chemical and mechanical -grinding and ultrasound- treatments) **and scientific studies in Cultural Heritage** (Ceramics, Wall Painting, Painting, Metals (Bronze, Amalgams, Leads, Gold, Silver), Mirrors, Mortars, etc., including the characterization and alteration of the components). In all these studies, a significant number of experimental techniques and procedures, specially thermal analysis methods, have been applied.

It has been realized scientific studies on more than 400 artworks from main Historical sites (Alcazar Seville Palace, Seville Cathedral, Seville City Hall, Fine Art Museum, Pompeian, Burgos Cathedral, Granada Cathedral, Alhambra Palace, several Churches and Convent from Andalusia, etc.)

10 Selected Publications (out of more than 270)

1. L de Viguerie, M. D. Robador, J Castaing, **J.L. Perez-Rodriguez**, P Walter, A Bouquillon . Technological Evolution of Ceramics in the Renaissance: In-situ Analysis of Glazed Tiles in the Alcazar Palace (Seville, Spain). *Journal of the American Ceramic Society* (in press 2018).
2. **Pérez-Rodriguez J.L.**, Perez-Maqueda R., Franquelo M.L., Duran A. Study of Thermal Decomposition of Historical metals threads. *Journal of Thermal Analysis and Calorimetry* (2017) 1-8.
3. **Perez-Rodriguez, J.L.**, Duran, A., Sánchez Jiménez, P.E., Franquelo, M.L., Perejón, A., Pascual-Cosp, J., Pérez-Maqueda, L.A. Study of the dehydroxylation-rehydroxylation of pyrophyllite. *Journal of the American Ceramic Society*, 93, Issue 8, (2010), 2392-2398.
4. Balek, V., Pérez-Maqueda, L.A., Poyato, J., Černý, Z., Ramírez-Valle, V., Buntseva, I.M, **Pérez-Rodriguez, J.L.** Effect of grinding on thermal reactivity of ceramic clay minerals. *Journal of Thermal Analysis and Calorimetry*, Volume 88, Issue 1, April 2007, Pages 87-91.
5. **Perez-Rodriguez, J.L.**, Pascual-Cosp, J., Franco F., Ramirez del Valle V., Pérez-Maqueda, L.A. The influence of ultrasound on the thermal behaviour of clay minerals. *Journal of the European Ceramic Society*, 26, Issue 4-5, (2006), 747-753.
6. **Pérez-Rodriguez, J.L.**, Franco, F., Ramírez-Valle, V., Pérez-Maqueda, L.A. Modification of the thermal dehydroxylation of antigorite by ultrasound treatment. *Journal of Thermal Analysis and Calorimetry* 82, Issue 3, (2005), 769-774.
7. Pérez-Maqueda, L.A., Blanes, J.M., Pascual, J, **Pérez-Rodríguez, J.L.** The influence of sonication on the thermal behavior of muscovite and biotite. *Journal of the European Ceramic Society*, 24, Issue 9, (2004), 2793-280.
8. Pérez-Maqueda, L.A., Canea, O.B., Poyato, J., **Pérez-Rodríguez, J.L.** Preparation and characterization of micron and submicron-sized vermiculite. *Physics and Chemistry of Minerals* 28, Issue 1, (2001), 61-66.
9. **Pérez-Rodríguez, J.L.**, Galán, E. Determination of impurity in sepiolite by thermal analysis. *Journal of Thermal Analysis*, 42, Issue 1, (1994), 131-141.
10. **Pérez Rodriguez, J.L.**, Maqueda, C., Lebrato, J., Carretero, M.I. Influence of clay minerals, used as supports in anaerobic digesters, in the precipitation of struvite. *Water Research*, 26, Issue 4, (1992), 497-506.

List of publications. José Luis Pérez Rodríguez

PAPERS IN INTERNATIONAL JOURNALS (SCI): 1969-2002

- J. L. Pérez Rodríguez y M. J. Wilson. Effects of pretreatment on a 14A swelling mineral from Gartly Aberdeenshire. *Clay Min.*, 8, 39-45, (1969).
- F. Martín Martínez and J. L. Pérez Rodríguez. Interlamellar adsorption of a blackearth humic acid on Na-Montmorillonite. *Z. Pflanz u. Bod.*, 52-57, (1969).
- J. L. Pérez Rodríguez, A. Weiss and G. Lagaly. A Natural clay organic complex from Andalusian black earth. *Clay Min.*, 25, 243-251, (1977).
- F. Moreno, J. Murillo, J. Martín Aranda, J. L. Pérez Rodríguez and J. L. Arrúe. Mineralogical composition of Clay fraction in marsh soils of S. W Spain. *Polish Journal of Soil Sci.* XIII, 65-72 (1980).
- M.C. Hermosín, J. L. Pérez Rodríguez. Interaction of chlordimeform with clay minerals. *Clays Clay Min.* 29 (2), 143-152, (1981).
- C. Maqueda, J. L. Pérez Rodríguez, F. Martín and M. C. Hermosín A Study of the interaction between chlordimeform and humic acid from a typical chromoxerert soil. *Soil Science*, 75-81, (1983).
- J. L. Pérez Rodríguez, C. Maqueda and A. Justo. Pyrophyllite determination in mineral mixtures. *Clays Clay Min.* 33(6), 563-566, (1985).
- J. L. Pérez Rodríguez, C. Maqueda y A. Justo. A Scientific study of the terracota sculptures from the porticos of Sevilla Cathedral. *Studies in Conservation*, 30, 31-38, (1985).
- M. C. Hermosín, J. Cornejo and J. L. Pérez Rodríguez. Thermal stability of chlordimeform-montmorillonite complex. *Clay Min.*, 20, 153-159, (1985).
- C. Maqueda, J. L. Pérez Rodríguez and A. Justo. Degradation of ceramic sculptures on the Cathedral of Sevilla. *Miner. Petrogr. Acta*, 29-A, 591-598, (1985).
- J. L. Pérez Rodríguez, E. Morillo and M. C. Hermosín. Interaction of chlordimeform with a vermiculite-decylammonium complex in aqueous and Butanol solutions. *Miner. Petrogr. Acta*, 29-A, 155-162, (1985).
- C. Maqueda, J. L. Pérez Rodríguez and M. P. Eugenio. Interaction of chlordimeform with the clay fraction of a variable charge soil. *Soil Science*, 141 (2), 138-143, (1986).
- C. Maqueda, J. L. Pérez Rodríguez and A. Justo. Problems in the dissolution of silicates by acid mixtures. *Analyst* 111, 1107-1108, (1986).
- Justo, C. Maqueda, J. L. Pérez Rodríguez y G. Lagaly. An unusually Expandable low-charge vermiculite. *Clay Minerals*, 22, 319-327, (1987).
- Maqueda, J. L. Pérez Rodríguez, y A. Justo. Effect of Pyrophyllite in the precipitation of aluminium sulphates during the dissolution of aluminium silicates by acid mixtures. *Analyst*, 112, 1085-1086, (1987).
- M. C. Hermosín, J. Cornejo y J. L. Pérez Rodríguez. Adsorption-desorption of Maleic Hydrazide as a function of soil properties. *Soil Science*, 144, 4, 250-256 (1987).
- J. L. Pérez Rodríguez, E. Morillo y C. Maqueda. Decomposition of alkylammonium cations intercalated in vermiculite. *Clay Minerals* 23, 379-390 (1988).
- E. T. Stepkowska, J. L. Pérez Rodríguez, A. Justo, P. J. Sánchez Soto y S.A. Jefferis. Possibility of feldspar formation in bentonite suspensions during storage and/or heating. *Thermochimica Acta*, 135, 319-334, (1988).

- J. L. Pérez Rodríguez, L. Madrid y P. J. Sánchez Soto. Effects of dry grinding on pyrophyllite. *Clay Minerals* 23 (1988) 399-410.
- M.C. Hermosin, J. Cornejo, J. L. Pérez Rodríguez. Adsorption and desorption of maleic hydrazide as a function of soil properties- reply. *Soil Sci* 146 (5): 385-385 (1988).
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- J. L. Pérez Rodríguez, M. I. Carretero y C. Maqueda. Behaviour of sepiolite, vermiculite and montmorillonite as supports in anaerobic digesters. *Appl. Clay Science* 148, 336-345 (1989).
- Maqueda, E. Morillo and J.L. Pérez Rodríguez. Interaction in aqueous solution of certain pesticides with fulvic acid from a podsol soil. *Soil Science* 148, 336-345 (1989).
- J. L. Pérez Rodríguez, C. Maqueda y M.I. Carretero. Effects of some clay minerals on the growing of sulphate-reducing bacteria in anaerobic reactors. *Appl. Clay Science*. 4, 509-519 (1989).
- Justo, C. Maqueda, J. L. Pérez Rodríguez y E. Morillo. Expansibility of some vermiculites. *Appl. Clay Science*, 4, 449-459 (1989).
- P. J. Sánchez Soto y J. L. Pérez Rodríguez. Thermal analysis of pyrophyllite transformation. *Thermochimica Acta*, 138, 267-276 (1989).
- P. J. Sanchez Soto y J. L. Pérez Rodríguez. Formation of Mullite from pyrophyllite by mechanical and thermal treatment. *J. Am. Ceram. Soc.*, 72, 154-157 (1989).
- P.J Sánchez Soto y J. L. Pérez Rodríguez. SEM study of pyrophyllite high-temperature transformations. *J. Mater. Sci.* 24 3774-3778 (1989).
- P. J. Sánchez Soto, A. M. Rabasco, A. Justo y J. L. Pérez Rodríguez. Thermal study of the diazepam-polyethyleneglycol 6000 solid dispersion. *Thermochimica. Acta*. 158, 225-234, (1990).
- J. L. Pérez Rodríguez, C. Maqueda y E. Morillo. Occurrence of palygorskite in soils of Ecija (Spain). *Aust. J. Soil Res.* 28, 117-128, (1990).
- Maqueda, E. Morillo, J. L. Pérez Rodríguez y A. Justo. Adsorption of chlordimeform by humic substances from different soils. *Soil Science*, 150(1), 431-437, (1990).
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- J. Lebrato, J. L. Pérez Rodríguez, C. Maqueda y E. Morillo. Cheese factory wastewater treatment by anaerobic semicontinuous digestion. *Resources, Conservation and Recycling*, 3,193-99 (1990)
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- J. L. Pérez Rodríguez and P. J. Sánchez Soto. The influence of the dry grinding on the thermal behaviour of pyrophyllite. *J. Thermal Anal.* 37, 1401-13 (1991).
- E.T. Stepkowska, Z. Sulek, J.L. Pérez-Rodríguez, C. Maqueda and A. Justo. A study of the thermal behaviour and geotechnical properties of a marine clay and its composites. *Thermal Análisis in Geosciences* (1991).
- T. Stepkowska, Z. Sulek, J. L. Pérez Rodríguez, A. Justo and C. Maqueda. Thermal and microstructural studies on mud with additives. *J. Thermal Anal.* 37, 1497-1511 (1991).

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- J.L. Pérez Rodríguez, C. Maqueda, J. Lebrato, et al. Influence of clay-minerals, used as supports in anaerobic. *Water Res.* 26 (4): 497-506 (1992).
- J. L. Pérez Rodríguez, L. A. Pérez Maqueda, A. Justo and P. J. Sánchez Soto. Influence of grinding contamination on high-temperature phases of kaolinite. *Ind. Ceram.* 12, 109-113 (1992).
- P. J. Sánchez Soto, M. Macías and J. L. Pérez Rodríguez. Effect of mechanical treatment on X-ray line broadening in pyrophyllite. *J. Am. Ceram. Soc.* 76, 180-184 (1993).
- P.J. Sánchez Soto, I Sobrados, J. Sanz, J.L. Pérez Rodríguez. 29-Si and 27-Al magic-angle-spinning nuclear-magnetic-resonance study of the thermal transformations of pyrophyllite. *J. Am. Ceram. Soc.* 76 (12): 3024-3028 (1993).
- L.A. Pérez Maqueda, J.L. Pérez Rodríguez, G.W. Scheifele, P.J. Sanchez Soto. Thermal-analysis of ground kaolinite and pyrophyllite. *J Therm Anal* 39 (8-9): 1055-1067 (1993).
- J.L. Pérez Rodríguez, L.A. Pérez Maqueda A. Justo A, P.J. Sanchez Soto. Influence of grinding contamination on high-temperature phases of pyrophyllite. *J. Eur Ceram Soc* 11 (4): 335-339 (1993).
- M.A. Avilés, A. Justo, P. J. Sánchez Soto, J.L. Perez Rodriguez. Síntesis of nitrogen ceramic from a new vermiculite polyacrylonitrile intercalation compound by carbothermal reduction. *J Mater Chem* 3 (2): 223-224 (1993)
- E. T. Stepkowska, J.L. Pérez Rodríguez, A. Justo A, et al. Variations in water sorption and in thermogravimetry of a Portland-cement. *Thermochim Acta* 214 (1): 97-102 (1993).
- J. L. Pérez Rodríguez, C. Maqueda, A. Justo, E. Morillo, M. C. Jiménez de Haro. Characterization of decayed ceramic sculptures decorating the Pardon portico of Seville Cathedral, Spain. *Appl. Clay Sci.* 99, 17-25 (1994).
- P. J. Sánchez Soto, A. Justo, J. L. Pérez Rodríguez and E. Morillo. Structural alteration of pyrophyllite by dry grinding as studied by IR spectroscopy. *J. Mater. Sci. Letters* 13, 915-918 (1994).
- J. L. Pérez Rodríguez, e. Galan. Determinación of impurity in Sepiolite by thermal analysis. *J. Thermal Analysis*, 42, 131-141 (1994).
- C. Maqueda, J. L. Pérez Rodríguez and J. Lebrato. Study of struvite precipitation in anaerobic digesters. *Wat. Res.* 28, 411-416 (1994).
- E.T. Stepkowska, J. Bijen, J. L. Pérez Rodríguez, A. Justo, P. J. Sanchez. Soto, M. Avilés. Thermal mass changes of Portland cement and slags cements after water sorption. *J. Thermal Analysis.* 42, 41-65 (1994).
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- P.J. Sánchez Soto, A. Justo, J.L. Pérez Rodríguez. Grinding effect on kaolinite pyrophyllite illite natural mixtures and its influence on mullite formation. *J Mater Sci* 29 (1994) 1276-1283.
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- C. Maqueda, J. L. Pérez Rodríguez, J. Lebrato. Anaerobic digestion of wastewater and solid waste using raw clays as supports. *Fresenius Environmental Bulletin*, 4, (1995) 29-134.

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- P. J. Sánchez Soto, E. Morillo, J. L. Pérez Rodríguez and C. Real. Thermoanalytical study of the pesticide 3-amino-1,2,4 triazole. *J. Thermal Anal.*, 45 (1995) 1189-1197.
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- A. Ruíz Conde, A. Ruíz Amil, J. L. Pérez Rodríguez y P. J. Sánchez Soto. Dehydration-rehydration in magnesium vermiculite: conversion from two-one and one-two water layer hydration states though the formation of interstratified phases. *J. Mater. Chem.*, 6 (1996) 1557-1566.
- P.J.Sánchez Soto, A. Wiewióra, M.A. Avilés, A. Justo, L.A. Pérez-Maqueda, J.L Pérez-rodríguez, P.Bylina. Talc from Puebla de Lillo, Spain. II. Effect of dry grinding on particle size and shape. *Applied Clay Science* 12, (1997) 297-312.
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- C. Maqueda, J.L. Pérez-Rodríguez and J. Lebrato. An evaluation of clay mineral as support materials in anaerobic digesters. *Environmental Technology* 19, (1998) 811-819.
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