

Departament de Cristal·lografia, Mineralogia i Dipòsits Minerals
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University Education

- * 1985 Graduated in geology, Universitat de Barcelona, Spain
- * 1990 Ph.D. degree, Universitat de Barcelona, Spain

Memberships:

- * Grupo Especializado de Cristalografía (GEC)
- * Real Sociedad Española de Química (RSEQ)
- * Sociedad Española de Mineralogía (SEM)

Research Interests

- * Mineralogy
- * Crystallography
- * Concrete and mortar stability
- * Mineralogy of Ni-laterites deposits
- * Ophiolitic chromitites
- * Mineralogy and Clay mineralogy
- * Materials characterization
- * Laterites
- * Reactive minerals and expansive mechanism
- * Historical aspects of mining in Catalonia

Teaching

- * Undergraduate Teaching
 - Crystallography
 - Mineralogy
 - Characterizations methods in mineralogy

Refereed Publications

2005

- * Canet, C.; Tauler, E.; Alfonso, P.; Melgarejo, J.C.; Labrador, M., 2005. Caracterización mineralógica de cloritas de los depósitos hidrotermales de Zn-Pb-Cu de L'Alforja (Cadena Costera Catalana, España). Boletín de Mineralogía de la Sociedad Mexicana de Mineralogía, 16, 21-31

2003

* Garcia, E.; Alfonso, P.; Labrador, M.; Galí, S., 2003. Dedolomitization in different alkaline media: Application to Portland cement paste. *Cement and Concrete Research*, 33(6), 1443-1448

2001

* Estop, E.; Alcobé, X.; Labrador, M.; Tauler, E.; Alvarez-Larena, A., 2001. Non-estable mixtures of molecular alloys. The p-bromoiodobenzene/p-diiodobenzene phase diagram. *Journal of Physics and Chemistry of Solids*, 62 (5), 907-920

* Galí, S.; Ayora, C.; Alfonso, P.; Tauler, E.; Labrador, M., 2001. Kinetics of dolomite-portlandite reaction. Application to portland cement concrete. *Cement and Concrete Research*, 31, 933-939

1999

* Serrano-González, H.; Harris, K.D.M.; Kitchin, S.J.; Alvarez-Larena, A.; Estop, E.; Alcobé, X.; Tauler, E.; Labrador, M.; Apperley, D.C., 1999. Structural Disorder in Solid p-Iodotoluene. *Journal of Solid State Chemistry*, 143, 285-295

1997

* Estop, E.; Alvarez-Larena, A.; Belaaraj, A.; Solans X.; Labrador, M., 1997. a-Phase p-dichlorobenzene at 293 K. *Acta Crystallographica Section C-Crystal Structure Communications*, 53, 1932-1935

1996

* van Miltenburg, J.C.; Alvarez-Larena, A.; Labrador, M.; Palacios, L.; Rodríguez-Romero, J.; Tauler, E.; Estop, E., 1996. The thermal properties of three (Cl-, Br-, I-) para-halotoluenes. Formation of glassy crystals. *Thermochimica Acta*, 273, 31-42

1995

* Calvet, T.; Cuevas-Diarte, M.A.; Tauler, E.; Labrador, M.; Haget, Y.; Oonk, H.A.J., 1995. Molecular alloys in the series of paradisubstituted benzene derivatives. VII. The para-dibromobenzene + parabromoiodobenzene and para-chloroiodobenzene + para-bromoiodobenzene systems. *Journal de Chimie Physique et de Physico-Chimie Biologique*, 92, 2038-2047

* Onnk, H.A.J.; Calvet, T.; Cuevas-Diarte, M.A.; Tauler, E.; Labrador, L.; Haget, Y., 1995. Molecular alloys in the series of para-disubstituted benzene derivatives. VIII. The para-dichlorobenzene + para-bromiodobenzene system. *Thermochimica Acta*, 250, 13-18

1994

* Tauler, E.; Labrador, M.; Cuevas-Diarte, M.A.; Calvet, T.; Estop, E.; Mondieig, D.; Haget, Y., 1994. Behavior during thermal cyclin of molecular alloys for the storage of thermal energy. II. Alloy with p-chloriodobenzene and p-bromiodobenzene. *Materials Research Bulletin*, 29(3), 293-301

* Solans, X.; Ruiz-Ramírez, L.; Moreno-Esparza, R.; Labrador, M.; Escuer, A., 1994. (Tetrakis (2-pyridylmethyl) ethylenediamine) iron (II) perchlorate. Phase transition study about the first rapidly interconverting ferrous spin-crossover complex. *Journal of Solid State Chemistry*, 109, 315-320

1992

* Labrador, M.; Cuevas-Diarte, M.A.; Mondieig, D.; Haget, Y., 1992. The application of DSC to the study of phase segregation during the thermal cycling of para-dihalosubstituted derivatives of benzene and their alloys. *Thermochimica Acta*, 195, 261-275

1991

* Calvet, T.; Labrador, M.; Tauler, E.; Cuevas Diarte, M.A.; Estop, E.; Haget, Y. Diarte, M.A., 1991. Molecular alloys in the series of paradisubstituted benzene derivatives. Part VI. The paradichlorobenzene-parachloriodobenzene system. *Thermochimica Acta*, 180(2), 61-67

* Bonpunt, L.; Courchinoux, R.; Haget, Y.; Estop, E.; Calvet, T.; Labrador, M.; Cuevas-Diarte, M.A., 1991. Compositional Deformation of Crystal Lattices of Molecular alloys in the Series of p-Disubstituted Benzene Derivatives.I. Method of Calculation and Experimental Results. *Journal of Applied Crystallography*, 24, 164-170

* Cuevas Diarte, M.A.; Calvet, T.; Labrador, M.; Estop, E.; Oonk, H.A.J.; Bonpunt, L.; Haget, Y., 1991. Coefficients of molecular homeomorphism and crystalline isomorphism in the series of para-disubstituted benzene derivatives. *Journal de Chimie Physique et de Physico-Chimie Biologique*, 88, 509-514

* Mondieig, D.; Haget, Y.; Labrador, M.; Cuevas Diarte, M.A.; Van der Linde, P.R.; Oonk, H.A.J., 1991. Molecular alloys as phase change materials for the storage of thermal energy. *Materials Research Bulletin*, 26, 1091-1099

* Labrador, M.; Tauler, E.; Cuevas Diarte, M.A.; Mondieig, D.; Honsty, J.R.; Haget, Y., 1991. Behaviour during the thermal cycling of molecular alloys for the storage of thermal energy. *Materials Research Bulletin*, 26, 1227-1237

* Labrador, M.; Calvet, T.; Cuevas Diarte, M.A.; Mondieig, D.; Honsty, J.R.; Haget, Y., 1991. Segregation and reliability in the storage of thermal energy in molecular alloys. *Materials Research Bulletin*, 26, 749-761

1989

* Calvet, T.; Labrador, M.; Tauler, E.; Cuevas-Diarte, M.A.; Estop, E.; Haget, Y., 1989. Molecular alloys in the serie of paradisubstituted benzene derivatives. Part III. The para-bromochlorobenzene-para-dibromobenzene system. *Thermochimica Acta*, 147, 273-281

1988

* Alcobé, X.; Estop, E.; Tauler, E.; Calvet, T.; Labrador, M.; Cuevas-Diarte, M.A.; Haget, Y., 1988. Molecular alloys in the series of paradisubstituted benzene derivatives. IV. parabromochloro benzene / parachloro benzene system. *Materials Research Bulletin*, 23, 177-186

* Labrador, M.; Tauler, E.; Cuevas-Diarte, M.A.; Housty, J.R.; Chanh, N.B.; Haget, Y., 1988. Transitions de phases du pDCB et diagrammes de phases pDCB-pDBB et pDCB-pBCB. *Journal of Thermal Analysis*, 34, 537-542

* Calvet, T.; Tauler, E.; Cuevas-Diarte, M.A.; Estop, E.; Alcobé, X.; Labrador, M.; Haget, Y., 1988. Crystal Data for p-chloriodobenzene/p-dibromobenzene mixed crystals at 293 K. Powder Diffraction. *International Journal of Materials Characterization*, 3(4), 242-243

1987

* Alcobé, X.; Estop, E.; Haget, Y.; Cuevas, M.A.; Labrador, M.; Calvet, T.; Tauler, E., 1987. Crystal data for p-chloriodobenzene and p-bromochlorobenzene p-chloriodobenzene mixed crystals at 293 K. *Journal of Applied Crystallography*, 20, 48

* Labrador, M.; Calvet, T.; Tauler, E.; Cuevas Diarte, M.A.; Estop, E.; Haget, Y., 1987. Alliages moléculaires en série benzenique disubstituée en para. II. Systeme paradichlorobène- parabromochlorobenzene. *Journal de Chimie Physique et de Physico-Chimie Biologique*, 84(7-8), 951-955

1986

* Labrador, M.; Tauler, E.; Haget, I.; Calvet, T.; Cuevas, M.A.; Estop, E., 1986. Crystal data for p-bromochlorobenzene and p-dichlorobenzene/p-bromochlorobenzene mixed crystals at 293 K. *Journal of Applied Crystallography*, 19, 65

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