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Activités de recherche

Responsabilités scientifiques : Expert Référent Construction en Terre crue au CTMNC

Thèses de doctorat –Thème : Pigments colorés à base d'oxynitrures pour la photocatalyse en lumière visible (2006 – Univ. Rennes 1)

Maçonnerie : Etudes axée sur la briques de terre crue (caractérisation, normalisation)

Thèse soutenues

Nouveau système constructif multimatériaux bois/liant géopolymérique/brique de terre crue : formulation, caractérisation et transfert d'échelle (Doctorant : Fabrice Gouny – 2013)
Collaboration GC2D (F.Fouchal)-IRCER

Publications dans des revues internationales à comité de lecture

[2021]

Hygroscopic and mechanical behaviour of earth bricks

L. Laou, J-E. Aubert, S. Yotte, P. Maillard, L. Ulmet
Materials and Structures, **2021**, 54(3),116.

[2020]

A methodology for the mix design of earth bedding mortar

M. Duriez, F. Vieux-Champagne, R. Trad, P. Maillard, J-E. Aubert
Materials and Structures, **2020**, 53(1),16.

[2017]

Effect of Plant Aggregates on Mechanical Properties of Earth Bricks

A. Laborel-Préneron; J.-E. Aubert; C. Magniont; P. Maillard; and C. Poirier
J. Mater. Civ. Eng, **2017**, 29(12)

[2016]

Characterization of the coupled hygrothermal behavior of unfired clay masonries: numerical and experimental aspects

D. Medjelekh, L.Ulmet, F.Gouny, F. Dubois, P. Maillard, B. Nait Ali, F.Fouchal
Building and Environment, **2016**, 110,89-103

[2015]

Towards a simple compressive strength test for earth brick?

J.E. Aubert, P. Maillard, J.C. Morel, M. Al Rafii

Materials and Structure, **2015**, 1-14

Experimental evolution of hydric performances of masonry walls made of earth bricks, geopolymer and wooden frame

F. Fouchal, F. Gouny, P. Maillard, L. Ulmet, S. Rossignol

Building and Environment, **2015**, 87, 234-243

[2014]

Effects of the anisotropy of extruded earth bricks on their hygrothermal properties

P. Maillard, J.E. Aubert

Construction and Building Materials, **2014**, 63, 56-61

Study of the effect of siliceous species in the formation of a geopolymer binder: understanding the reaction mechanisms among the binder, wood and earth brick

F. Gouny, F. Fouchal, P. Maillard, S. Rossignol

Industrial and Engineering Chemistry Research, **2014**, 47 (9), 3559-3569

[2013]

An earth block with a compressive strength higher than 45 MPa!

J.E. Aubert, A. Fabbri, J.C. Morel, P. Maillard

Construction and Building Materials, **2013**, 47, 366-369

Mechanical behavior of an assembly of wood-geopolymer-earth bricks

F. Gouny, F. Fouchal, O. Pop, P. Maillard, S. Rossignol

Construction and Building Materials, **2013**, 38, 110-118

[2012]

A geopolymer mortar for wood and earth structure

F. Gouny, F. Fouchal, P. Maillard, S. Rossignol

Construction and Building Materials, **2012**, 36, 188-195

Comptes rendus de congrès Internationaux avec Comité de Lecture

Hygrothermal properties of extruded earth brick

P. Maillard, J-E. Aubert

Terra2016, World Congress on Earthen Architecture, 11-14 July 2016, Lyon (France)