

LMDC - Publications internationales parues en 2012

Pôle 1

1	Aubert J.-E., Gasc-Barbier M., Hardening of clayey soil blocks during freezing and thawing cycles, Applied Clay Science, Vol. 65-66, Pages 1-5, Sept 2012
2	Aubert J.-E., Segui P., Husson B., Measson M., A method developed to quantify lime and gypsum consumed by mineral additions, Cement and Concrete Composites, Vol. 34, Issue 7, Pages 874-880, Aug. 2012
3	Ayed K., Benaissa A., Vidal T., Pons G., Study of shrinkage and creep of self compacting concretes was based in natural pozzolans and fine siliceous from Algeria, Canadian Journal of Civil Engineering, Vol. 39, Issue 1, Pages 10-19, Jan. 2012
4	Cyr M., Idir R., Escadeillas G., Use of metakaolin to stabilize sewage sludge ash and municipal solid waste incineration fly ash in cement-based materials, Journal of Hazardous Materials, Vol. 243, Pages 193–203, Dec. 2012
5	Cyr M., Idir R., Poinot T., Properties of inorganic polymer (geopolymer) mortars made of glass cullet, Journal of Materials Science, Vol. 47, Issue 6, Pages 2782-2797, Mar. 2012
6	Diederich P., Mouret M., de Ryck A., Ponchon F., Escadeillas G., The nature of limestone filler and self-consolidating feasibility Relationships between physical, chemical and mineralogical properties of fillers and the flow at different states, from powder to cement-based suspension, Powder Technology, Vol. 218, Pages 90-101, Mar. 2012
7	Ho A.-C., Turatsinze A., Abou-Chakra Guery A., Rubberized concrete for the design of pavement on soil, International Journal of Materials Engineering Innovation, Vol. 3, Issue 2, pages 101-116
8	Ho A.-C., Turatsinze A., Hameed R. Vu D.-C., Effects of rubber aggregates from grinded used tyres on the concrete resistance to cracking, Journal of Cleaner Production, Vol. 23, Issue 1, Pages 209-215, Mar. 2012
9	Kolani B., Buffo-Lacarrière L., Sellier A., Escadeillas G., Boutillon L., Linger L., Hydration of slag-blended cements, Cement and Concrete Composites, Vol. 34, Issue 9, Pages 1009-1018, Oct. 2012
10	Magniont C., Escadeillas G., Coutand M., Oms-Multon C., Use of plant aggregates in building ecomaterials, European Journal of Environmental and Civil Engineering, Vol. 16, Special Issue: SI, Supplement 1, Pages S17-S33, Jun. 2012
11	Nguyen T.-H., Toumi A., Turatsinze A., Tazi F., Restrained shrinkage cracking in steel fibre reinforced and rubberised cement-based mortars, Materials and Structures, Vol. 45, Issue 6, Pages 899-904, Jun. 2012
12	Segui P., Aubert J.-E., Husson B., Measson M., Characterization of wastepaper sludge ash for its valorization as a component of hydraulic binders, Applied Clay Science, Vol. 57, Pages 79-85, Mar. 2012

Pôle 2

13	Bouzabata H., Multon S., Sellier A., Houari H., Effects of restraint on expansion due to delayed ettringite formation, Cement and Concrete Research, Vol. 42, Issue 7, Pages 1024-1031, Jul. 2012
14	Bouzabata H., Multon S., Sellier A., Houari H., Swellings due to alkali-silica reaction and delayed ettringite formation: Characterisation of expansion isotropy and effect of moisture conditions, Cement and Concrete Composites, Vol. 34, Issue 3, Pages 349-356, Mar. 2012

15	Deby F., Carcasses M., Sellier A., Simplified models for the engineering of concrete formulations in a marine environment through a probabilistic method, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 3-4, Special Issue: SI, Pages 362-374, 2012
16	Leklou N., Aubert J.-E., Escadeillas G., Effect of wetting-drying cycles on mortar samples affected by DEF, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 5, Pages 582-588, 2012
17	Mai-Nhu J., Sellier A., Duprat F., Rougeau P., Capra B., Hyvert N., Francisco P., Probabilistic approach for durable design of concrete cover: application to carbonation, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 3-4, Special Issue: SI, Pages: 264-272, 2012
18	Mercado H., Lorente S., Bourbon X., Chloride diffusion coefficient: A comparison between impedance spectroscopy and electrokinetic tests, <i>Cement and Concrete Composites</i> , Vol. 34, Issue 1, Pages 68-75, 2012
19	Mercado H., Lorente S., Bourbon X., The diffusion coefficient of ionic species through unsaturated materials, <i>Transport in Porous Media</i> , DOI 10.1007/s11242-012-0100-3, 2012
20	Multon S., Sellier A., Perrin B., Numerical analysis of frost effects in porous media. Benefits and limits of the finite element poroelasticity formulation, <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , Vol. 36, Issue 4, Pages 438-458, Mar. 2012
21	Senhadji Y., Escadeillas G., Khelafi H., Mouli M., Benosman A., Evaluation of natural pozzolan for use as supplementary cementitious material, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 1, Pages 77-96, 2012

Pôle 3

22	Al-Mahmoud F., Castel A., Francois R., Failure modes and failure mechanisms of RC members strengthened by NSM CFRP composites - Analysis of pull-out failure mode, <i>Composites Part B – Engineering</i> , Vol. 43, Issue 4, Pages 1893-1901, Jun. 2012
23	Balayssac J.-P., Laurens S., Arliguie G., Breyse D., Garnier V., Derobert X., Piwakowski B., Description of the general outlines of the French project SENSO - Quality assessment and limits of different NDT methods, <i>Construction and Building Materials</i> , Vol. 35, Pages 131-138, Oct. 2012
24	Castel A., Coronelli D., Francois R., Response of corroded prestressed beams with bonded strands, <i>Proceedings of the institution of civil engineers structures and buildings</i> , Vol. 165, Issue 5, Pages 233-244, May 2012
25	Castel A., Vidal T., Francois R., Finite-Element Modeling to Calculate the Overall Stiffness of Cracked Reinforced Concrete Beams, <i>Journal of Structural Engineering (ASCE)</i> , 138(7), 889–898, Oct. 2012
26	Castel A., Vidal T., Francois R., Finite element to calculate the overall stiffness of cracked reinforced concrete beams, <i>Journal of Structural Engineering-ASCE</i> , Vol. 138, No. 7, July 1, p. 889-898, 2012.
27	Cetkin E., Lorente S., Bejan A., Vascularization for cooling a plate heated by a randomly moving source, <i>Journal of Applied Physics</i> , Vol. 112, 084906; doi: 10.1063/1.4759290, 2012.
28	Clement A., Laurens S., Arliguie G., Deby F., Numerical study of the linear polarisation resistance technique applied to reinforced concrete for corrosion assessment, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 3-4, Special Issue: SI, Pages 491-504, 2012

29	Combelles L., Lorente S., Anderson R., Bejan A., Tree-shaped fluid flow and heat storage in a conducting solid, <i>Journal of Applied Physics</i> , Vol. 111, Issue 1, Article Number: 014902, Jan. 2012
30	Francois R., Khan I., Vu N.-A., Mercado H., Castel A., Study of the impact of localised cracks on the corrosion mechanism, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 3-4, Special Issue: SI, Pages 392-401, 2012
31	Khan I., Francois R., Castel A., Structural performance of a 26-year-old corroded reinforced concrete beam, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 3-4, Special Issue: SI, Pages 440-449, 2012
32	Lorente S., Bejan A., Al-Hinai K., Sahin A.-Z., Yilbas B.-S., Constructal design of distributed energy systems: Solar power and water desalination, <i>International Journal of Heat and Mass Transfer</i> , Vol. 55, Issue 9-10, Pages 2213-2218, Apr. 2012
33	Sbartai Z.-M., Breyse D., Larget M., Balayssac J.-P., Combining NDT techniques for improved evaluation of concrete properties, <i>Cement and Concrete Composites</i> , Vol. 34, Issue 6, Pages 725-733, Jul. 2012
34	Stablon T., Sellier A., Domède N., Plu B., Dieleman L., Influence of building process on stiffness: numerical analysis of a masonry vault including mortar joint shrinkage and crack re-closure effect, <i>Materials and Structures</i> , Vol. 45, Issue 6, Pages 881-898, Jun. 2012
35	Villain G., Sbartai M., Dérobert X., Garnier V., Balayssac J.-P., Durability diagnosis of a concrete structure in a tidal zone by combining NDT methods: Laboratory tests and case study, <i>Construction and Building Materials</i> , Vol. 37, Pages 893–903, Dec. 2012,
36	Zhang R., Castel A., Francois R., Concrete cracking due to chloride-induced reinforcement corrosion - influence of steel-concrete interface defects due to the 'top-bar effect', <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 3-4, Special Issue: SI, Pages 402-413, 2012

Hors laboratoire

37	de Larrard T., Benboudjema F., Colliat J.-B., Torrenti J.-M., Influence of the spatial variability of leaching kinetics parameters on the lifespan of a concrete structure, <i>European Journal of Environmental and Civil Engineering</i> , Vol. 16, Issue 5, Special Issue: SI, Pages 606-624, 2012
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Hors thème

38	Bejan A., Lorente S., The physics of spreading ideas, <i>International Journal of Heat and Mass Transfer</i> , Vol. 55, Issue 4, Pages: 802-807, Jan. 2012
39	Cetkin E., Lorente S., Bejan A., The steepest S curve of spreading and collecting flows: Discovering the invading tree, not assuming it, <i>Journal of Applied Physics</i> , Vol. 111, Issue 11, Article Number 114903, Jun. 2012
40	Kobayashi H., Lorente S., Anderson R., Bejan A., Freely morphing tree structures in a conducting body, <i>International Journal of Heat and Mass Transfer</i> , Vol. 55, Issue 17-18, Pages 4744-4753, Aug. 2012
41	Kobayashi H., Lorente S., Anderson R., Bejan A., Serpentine thermal coupling between a stream and a conducting body, <i>Journal of Applied Physics</i> , Vol. 111, Issue 4, Article Number: 044911, Feb. 2012
42	Kobayashi H., Lorente S., Bejan A., Trees and serpentine in a conducting body, <i>International Journal of Heat and Mass Transfer</i> , Vol. 56, pp. 488-494, 2012

43	Rocha L.A.O., Lorente S., Bejan A., Anderson R., Constructal design of underground heat sources or sink for the annual cycle, International Journal of Heat and Mass Transfer, Vol. 55, pp. 7832-7837, 2012
44	Lorente S., Cetkin E., Bello-Ochende T., Meyer J.P., Bejan A., The constructal law physics of why swimmers must spread their fingers and toes, Journal of Theoretical Biology, Vol. 308, pp. 141-146, 2012
45	Lui C.-H., Fong N.-K., Lorente S., Bejan A., Chow W.-K., Constructal design for pedestrian movement in living spaces: Evacuation configurations, Journal of Applied Physics, Vol. 111, Issue 5, Article Number: 054903, Mar. 2012