I - Articles dans des revues à comité de lecture (ACL)


61. Sennoune M., Salvador S., Quintard M. 2011 Reducing CO2 emissions from oil shale semicoke smoldering combustion by varying the carbonate and fixed carbon contents, Combust. Flame 158, 2272–2282


II - Articles dans d’autres revues à comité de lecture (ACLN)


III – Ouvrages ou direction d’ouvrages (OS)

IV – Chapitres d’ouvrages (COS)

V – Habilitations à diriger des recherches (HDR)
1. Debenest G. 2010 Transport réactif en milieu poreux (Institut National Polytechnique de Toulouse)
2. Lorthois S. 2011 La Microcirculation Cérébrale: Structure, Transport et Imagerie Fonctionnelle. (Institut National Polytechnique de Toulouse)

VI – Thèses de doctorat (TH)
1. Bachir G., Contribution à l’Étude de la Convection Naturelle dans les Nanofluides en configuration de Rayleigh-Benard (UPS)
2. Billanou I., Modélisation expérimentale et théorique pour la quantification du débit sanguin par tomographie à emission de positrons. (INPT)
3. Davarzani H., Déterminations Théorique et Expérimentale des Coefficients de Diffusion et de Thermodiffusion Effectifs en Milieu Poreux (INPT)
4. Davit Y., Analyse Multi-Échelles des Phénomènes de Transport dans les Milieux Poreux Colonisés par des Biofilms (INPT)
5. Lapene A., Étude Expérimentale et Numérique de la Combustion In Situ (INPT)
6. Louriou C., Modélisation Instationnaire des Transferts de Masse et de Chaleur au sein des Évaporateurs Capillaires (INPT)
8. Ceballos L., Caractérisation des Propriétés Fluidiques des Couches de Diffusion des Piles à Combustibles PEMFC par une approche Numérique de Type Réseaux de Pores et par une Analyse d’Images issues de la Tomographie X (INPT)

10. Veran-Tissoires S., Sur le phénomène de cristallisation discrète à la surface ou à l’intérieur d’un milieu poreux (INPT)

**VII - CONFERENCES PLENIERES DANS CONGRES INTERNATIONAUX (INV)**


4. Prat M. 2010 c Application of pore network models for the analysis of heat and mass transfer with phase change in the porous wick of loop heat pipes, Keynote lecture. *15th International Heat Pipe Conference (IHPC15)*, Clemson, USA


**VIII - AUTRES CONFERENCES INVITEES (AINV)**


5. **Quintard M.** 2010 Modélisation physique et mathématiques du transport en milieux poreux (6h). *1ère Journées Scientifiques du LEM2I, Tipaza, Algérie*

6. **Swider P.** 2010 Mécanobiologie et cicatrisation périprothétique. *Rencontres Textile Santé 2010, Saint-Etienne, France*

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**IX - COMMUNICATIONS AVEC ACTES DANS DES CONGRES INTERNATIONAUX (ACTI)**

1. **Alastal K., Ababou R., Astruc D.** 2010 Partially saturated oscillatory flow in a sandy beach (numerical modeling). *Proc. of the XVIII International Conference on Computational Methods in Water Resources (CMWR 2010), Barcelone, Espagne*

2. **Allain H., Quintard M., Prat M., Baudouy B.** 2010 Upscaling of the superfluid equations in the landau regime for porous media. *Advances In Cryogenic Engineering, Vols 55A and 55B, Tucson, USA*


4. **Davarzani H., Marcoux M., Costeseque P., Quintard M.** 2010 a An experimental setup to determine diffusion and thermodiffusion coefficients in free fluid and porous media. *9th International Meeting on Thermodiffusion (IMT9), Toulouse, France*

5. **Davarzani H., Marcoux M., Quintard M.** 2010 b Effect of solid thermal conductivity and solid-solid contact on effective thermodiffusion coefficient in porous media. *9th International Meeting on Thermodiffusion (IMT9), Toulouse, France*

6. **Davarzani H., Marcoux M., Quintard M.** 2010 c A non-local thermal equilibrium model to determine the effective thermal diffusion coefficients in porous media. *3rd International Conference on Porous Media and its Applications in Science, Engineering and Industry, Montecatini, Italie*


8. **Eloukabi H., Sghaier N., Prat M., Ben Nassrallah S.** 2010 Drying experiments in a hydrophobic model porous medium in the presence of a dissolved salt. *17th International Drying Symposium, Magdeburg, Allemagne*

10. Louriou C., Prat M., Larue De Tournemine A. 2010 A pore network model for the study of transient heat and mass transfer with phase change in the capillary structure of loop heat pipes. 15th International Heat Pipe Conference (15th IHPC), Clemson, USA

11. Luo H., Quintard M., Debenest G., Laouafa F., Dorai F. 2010 A diffuse interface model for dissolution processes with variable density. AIChE Annual Meeting, Salt Lake City, USA

12. Musielak M., Marcoux M., Quintard M. 2010 Indoor Air Pollution: Study of Trichloroethylene Transport through Soil and Basement. 7th International Conference on Remediation of Chlorinated Ted Recalcitrant Compounds, Monterey, USA


14. Ouattara B., Mojtabi A., Elhajjar B., Charrier-Mojtabi M.-C. 2010 Influence of heat transfer across the boundaries of the cell in the process of separation of constituents of a binary mixture. 9th International Meeting on Thermodiffusion (IMT9), Toulouse, France


16. Pujol A., Pommier S., Debenest G., Quintard M., Chenu D. 2010 a Compositional drying in porous media: equilibrium and non-equilibrium approach. 17th International Drying Symposium, Magdeburg, Allemagne


20. Sennoune M., Salvador S., Debenest G., Mourzenko V. V 2010 Mixing of an oil shale with inert or reactive media to avoid decarbonation at the passage of a combustion front. CURIPC - Canadian unconventional resources and international petroleum conference, Calgary, Canada

22. Soulaine C., Debenest G., Quintard M. 2010 Upscaling multi-components two-phase flow dispersion with partitioning coefficient. *AIChE annual meeting*, Salt Lake City, USA


25. Vignoles G., Lachaud J., Aspa Y., Quintard M. 2010 Effective surface recession laws for the physico-chemical ablation of C/C composite materials. *34th International Conference on Advanced Ceramics & Composites*, Daytona Beach, USA


32. Bachrata A., Fichot F., Repetto G., Quintard M., Fleurot J. 2011 Quench front progression in a superheated porous medium: experimental analysis and model development. *14th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-14)*, Toronto, Canada
33. **Bailly D., Ababou R.** 2011 Morphological Structure and Hydraulic Behavior of karsts: Morphogenetic modeling in 2D and 3D. *9th Conference on Limestone Hydrogeology*, Besançon, France

34. **Charrier-Mojtabi M.-C., Fontaine A., Mojtabi A.** 2011 Analytical and numerical stability analysis of the flow induced by acoustic streaming in a heated binary fluid layer under weightlessness. *Bifurcations and instabilities in fluid dynamics (BIFD)*, Barcelona, Spain


40. **Huet J., Druihil C., Tremier A., Debenest G.** 2011 The impact of compaction, moisture content and particle size on initial physical properties of organic solid wastes before composting. *26th International Conference on Solid Waste Technology and Management*, Philadelphie, USA


42. **Khalil G., Swider P., Lorthois S., Marcoux M., Mansat P.** 2011 Wave front migration of endothelial cells in a bone-implant interface. *Annual Meeting of the Orthopedic Research Society*, Long Beach

43. **Luo H., Quintard M., Debenest G., Laouafa F.** 2011 a The AMR technique for simulating dissolution processes with a diffuse interface model. *3rd International Conference on Porous Media and the Annual Meeting*, Bordeaux, France

44. **Luo H., Quintard M., Debenest G., Laouafa F.** 2011 b A diffuse interface model for solid-liquid-air dissolution problems based on a porous medium theory. *AGU Fall Meeting 2011*, San Francisco, USA

46. Musielak M., Davarzani H., Marcoux M., Quintard M. 2011a Volatile Organic Compounds (VOC) transfer from soil to indoor air through concrete slab: experimental and numerical study. 28th Annual International Conference on Soils, Sediments, Water, and Energy, University of Massachusetts at Amherst

47. Musielak M., Marcoux M., Quintard M. 2011b Modeling the Transfer of Gaseous Pollutant through Concrete Slab. 12th International Conference on Indoor Air Quality and Climate (INDOOR AIR), Austin, USA

48. Musielak M., Marcoux M., Quintard M. 2011c Modeling the transfer of pollutant through fissured concrete slabs. 3rd International Conference on Porous Media (INTERPORE), Bordeaux, France


X - COMMUNICATIONS SANS ACTES DANS DES CONGRES INTERNATIONAUX (COMI)


10. Veran-Tissoires S., Prat M., Marcoux M. 2010 b Localization of crystallization spots at the surface of an internal evaporation front in a model porous medium. *CRYSPOM II*, Giessbach, Switzerland


15. Horgue P., Augier F., Prat M., Quintard M. 2011 a Multi-Scale Numerical and Experimental Study of Two-Phase Flow in Packed Beds. *AIChE Annual Meeting*, Minneapolis, USA


19. Veran-Tissoires S., Prat M., Marcoux M. 2011 Factors influencing the efflorescence localization at the surface of a saturated wick. *Interpore 2011*, Bordeaux, France

**XI - COMMUNICATIONS AVEC ACTES DANS DES CONGRES NATIONAUX (ACTN)**


8. Lefort P., Sarrot V., Prat M., Talandier J. 2011 Drainage hyperlent. 20ème Congrès Français de Mécanique (CFM 2011), Besançon, France

**XII - COMMUNICATIONS SANS ACTES DANS DES MANIFESTATIONS NATIONALES (COMN)**


2. Khouzam A., Mojtabi A., Charrier-Mojtabi M.-C., Ouattara B. 2011 Séparation des espèces d’un mélange binaire en présence de convection mixte. *Congrès Français de Mécanique*, Besançon, France


**VIII - Brevets (BRE)**

**IX – Publications à destination d’un public plus large (« vulgarisation scientifique »)**

**X – Logiciels**