

Liste des publications du LPTM entre 2007 et 2014

AUTEURS	SUJET/TITRE	REVUE Journal Référencé au JCR	PARUTION	
			DATE	VOLUME
Besson	Modelling of clad to coolant heat transfer for RIA	Journal of Nuclear Science and Technology	févr.-07	Vol 44 n° 2
Papin & al.	Summary and Interpretation of the CABRI REP-Na Program	Nuclear Technology	mars-07	Vol 157 - n° 3
Cazalis & al.	Fuel Cladding Behavior under Transients : the PROMETRA Programme and its interpretation	Nuclear Technology	mars-07	Vol 157 - n° 3
Besson - Sugiyama - Fuketa	Clad-to-Coolant Heat Transfer in NSRR Experiments	Journal of Nuclear Science and Technology	mai-07	Vol 44 n° 5
Vincent - Monerie - Suquet	Endommagement ductile de matériaux poreux contenant deux populations de cavités.	Académie des Sciences; Comptes Rendus Mécanique	janv.-08	CRM n° 336
Perales & al.	Two field multibody method for periodic homogenization in fracture mechanics of non linear composites	Engineering Fracture Mechanics	janv.-08	Vol 75
Vincent - Monerie	Surface de charge pour un matériau rigide plastique parfait avec fissures orientées aléatoirement.	Académie des Sciences; Comptes Rendus Mécanique	janv.-08	CRM n° 336
Busser & al.	Modelling of corrosion induced stressed during Zircaloy 4 oxidation in air	Materials science forum journal	déc.-08	Vol. 595-598
Busser & al.	Mechanical response of oxidized Zircaloy-4 cladding material submitted to a ring compressoin test	Journal of Nuclear Materials	janv.-09	Vol. 384
Vincent - Monerie - Suquet	Porous materials with two populations of voids under internal pressure: I. Instantaneous constitutive relations	International Journal of Solids and Structures	févr.-09	Vol. 46 n° 3-4
Martin & al.	Jamming and flow statistics in a silo geometry	AIP conference Proceedings	juin-09	Vol. 1145
Pelissou & al.	RVE size determination for the fracture of quasi-brittle composite materials	International Journal of Solids and Structures	sept.-09	Vol. 46
Fourgeaud & al.	MECHANICAL CHARACTERISTICS OF FUEL RODS IN TRANSPORT CONDITIONS	Packaging, transport, storage and security of radioactive material	oct.-09	Vol. 20 n° 2
Fukano & al.	Fuel Pin Behavior under Slow Ramp-type Transient-overpower Conditions in the CABRI-FAST Experiments	Journal of Nuclear Science and Technology	nov.-09	Vol. 46 n° 11

Martin & al.	Jamming and flow statistics in a silo geometry	AIP conference Proceedings	juin-09	Vol. 1145
Sartoris & al.	A consistent approach to assess safety criteria for reactivity initiated accidents	Nuclear Engenering and Design	janv.-10	Vol. 240
Vincent - Bourgeois - Monerie	Overall elastoplastic behavior of anisotropic metal-matrix composites reinforced by aligned inclusions. Application to hydrided and irradiated Zircaloy-4 cladding tubes	Mechanics of materials	mars-10	Vol. 42
Perales & al.	A non-smooth contact dynamics-based multi-domain solver : code coupling (Xper) and application to fracture	European Journal of Computational Mechanics	sept.-10	Vol. 19 n° 4
Topin & al.	Micro-rheology of dense particulate flows: application to immersed avalanches	Journal of Non-Newtonian Fluid Mechanics	janv.-11	Vol. 166
Topin - Radjai - Delenne	Stress fields in granular solids: Effect of composition	Powder Technology	mars-11	Vol. 208
Desquines & al.	The issue of stress state during mechanical tests to assess cladding performance during a reactivity-initiated accident (RIA)	Journal of Nuclear Materials	mai-11	Vol. 412
Busser & al.	Mécanismes d'endommagement de la couche d'oxyde des gaines de crayons de combustible en situation accidentelle de type RIA	Matériaux & Techniques	juil.-11	Vol. 99
Jelea & al.	An atomistic modelling of the porosity impact on UO2 matrix macroscopic properties	Journal of Nuclear Materials	juil.-11	Vol. 415
Lebensohn & al.	Dilatational viscoplasticity of polycrystalline solids with intergranular cavities	Philosophical Magazine	août-11	Vol. 91
Blal - Monerie - Daridon	Rigorous bounds on the artificial compliance inherent in the intrinsic cohesive zone models	Compte Rendu à l'Académie des Sciences	nov.-11	CRM-339
Zanellato & al.	Synchrotron diffraction study of dissolution and precipitation kinetics of hydrides in Zircaloy-4	Journal of Nuclear Materials	janv.-12	Vol. 420
Bichara & al.	Structure and properties of nanoscale materials : theory and atomistic computer simulation	International Journal of Nanotechnology	févr.-12	Vol. 9
Monerie & al.	Towards local identification of cohesive zone models using digital image correlation	European Journal of Mechanics A/Solids	juil.-12	Vol. 34
Affes & al.	Tensile strength and fracture of cemented granular aggregates	The european physical journal E	nov.-12	Vol. 35
Blal & al.	Artificial compliance inherent to the intrinsic cohesive zone models: criteria and application to planar meshes	International Journal of Fracture	nov.-12	Vol. 178
Topin & al.	Collapse Dynamics and Runout of Dense Granular Materials in a Fluid	Physical Review letters	nov.-12	PRL 109
Blal & al.	Michomechanical-based criteria for the calibration of cohesive zone parameters	Journal of Computational and Applied Mathematics	juil.-13	Vol. 246

Krebs & al.	Experimental characterization of Zircaloy-4 sheet deformation during combined hydriding and corrosion	Journal of Nuclear Materials	avr.-13	Vol. 435
Jelea & al;	An atomistic modeling of the xenon bubble behavior in the UO2 matrix	Journal of Nuclear Materials	janv.-14	Vol. 444
Colbert & al.	Atomistic study of porosity impact on phonon driven thermal conductivity: application to uranium dioxide	Journal of Applied Physics	janv.-14	Vol. 115
Tchitchekova & al.	A novel method for calculating the energy barriers for carbon diffusion in ferrite under heterogeneous stress	Journal of Chemical Physics	juil.-14	Vol. 141
Vincent & al.	Effective flow surface of porous materials with two populations of voids under internal pressure: I. a GTN model	International Journal of Plasticity	mai-14	Vol. 56
Vincent & al.	Effective flow surface of porous materials with two populations of voids under internal pressure: II. full-field simulations	International Journal of Plasticity	mai-14	Vol. 56
Mielniczyk & al.	A Three-scale cracking criterion for drying soils	Acta Geophysica	oct.-14	Vol. 62
Mielniczyk & al.	Rupture of an Evaporating Liquid Bridge bewteen Two Grains	Acta Geophysica	oct.-14	Vol. 62