

- N. Massacret, J. Moysan, M.A. PLOIX, J.P. Jeannot, and G. Corneloup. Modelling of ultrasonic propagation in turbulent liquid sodium with temperature gradient. *Journal of Applied Physics*, 115(20):204905, May 2014a. doi: 10.1063/1.4875876. URL <https://hal.archives-ouvertes.fr/hal-01300003>. WOS:000337143500105.
- Marie-Aude Ploix, Philippe Guy, Bertrand Chassignole, Joseph Moysan, Gilles Corneloup, and Rachid El Guerjouma. Measurement of ultrasonic scattering attenuation in austenitic stainless steel welds. *Ultrasonics*, 54(7):1729–1736, 2014. doi: 10.1016/j.ultras.2014.04.005. URL <https://hal.archives-ouvertes.fr/hal-00978866>.
- Jean-Philippe Zardan, Cécile Gueudré, and Gilles Corneloup. Study of induced ultrasonic deviation for the detection of ply waviness in Carbon Fibre Reinforced Polymer. *NDT and E International*, 2013. URL <https://hal.archives-ouvertes.fr/hal-01304239>.
- Jean-François Chaix, Mathieu Rossat, Vincent Garnier, and Gilles Corneloup. An experimental evaluation of two effective medium theories for ultrasonic wave propagation in concrete. *Journal of Acoustical Society of America*, 131(6):4481–4490, June 2012. doi: 10.1121/1.4712022]. URL <https://hal.archives-ouvertes.fr/hal-00731007>. 9 pages.
- K. Paumel, J. Moysan, D. Chatain, G. Corneloup, J.L. Berton, and F. Baqué. Modelling of ultrasound transmission through a solid-liquid interface comprising a network of gas pockets. *Journal of Applied Physics*, 110(4):044910, 2011a. URL <https://hal.archives-ouvertes.fr/hal-00624858>.
- Kevin Paumel, Joseph Moysan, Dominique Chatain, G. Corneloup, and Francois Baque. Modeling of ultrasound transmission through a solid-liquid interface comprising a network of gas pockets. *Journal of Applied Physics*, 2011b. doi: 10.1063/1.3611422. URL <https://hal.archives-ouvertes.fr/hal-01303224>.
- N. Massacret, J. Moysan, M.A. PLOIX, J.P. Jeannot, and G. Corneloup. Development of ultrasonic propagation simulation for acoustic thermometry in liquid sodium. In *GDRE*, Gregynog, Wales, United Kingdom, 2014b. URL <https://hal.archives-ouvertes.fr/hal-01299997>.
- Jean-François Chaix, M.A. PLOIX, G. Corneloup, and F. Baqué. Analyse des ondes de Lamb pour la détection ultrasonore de défauts. In *Journées COFREND*, Bordeaux, France, 2014. URL <https://hal.archives-ouvertes.fr/hal-01299998>.
- J. Moysan, N. Massacret, M.A. PLOIX, J.P. Jeannot, and G. Corneloup. Avancées pour l’inspection non destructive par des méthodes ultrasonores des réacteurs refroidis au sodium liquide. In *Congrès Français d’Acoustique*, Poitiers, France, 2014. URL <https://hal.archives-ouvertes.fr/hal-01299999>.
- N. Massacret, J. Moysan, J.P. Jeannot, M.A. PLOIX, and G. Corneloup. Etude d’une méthode ultrasonore d’estimation des températures du sodium liquide en sortie de cœur de SFR. In *Journées COFREND*, Bordeaux, France, 2014c. URL <https://hal.archives-ouvertes.fr/hal-01300000>.
- G. Corneloup, C. Gueudré, M.A. PLOIX, S. Bakhti, and B. Chassignole. Prévion de la description de l’anisotropie de soudures austénitiques multipasses pour leur contrôle ultrasonore. In *Journées COFREND*, Bordeaux, France, 2014a. URL <https://hal.archives-ouvertes.fr/hal-01300001>.
- G. Corneloup, C. Gueudré, M.A. PLOIX, J.M. Augem, J. Sibilo, T. Lebarbé, and F. Baqué. Recommandations de Conception issues du Contrôle Non Destructif (RCC-MRx). In *Journées COFREND*, Bordeaux, France, 2014b. URL <https://hal.archives-ouvertes.fr/hal-01300002>.
- B. Chassignole, P. Recolin, Nicolas Leymarie, Déborah Elbaz, Philippe Guy, Gilles Corneloup, and Cécile Gueudré. 3D modelling of ultrasonic testing in austenitic welds. In *BINDT 2013*, Telford, United Kingdom, 2013. URL <https://hal.archives-ouvertes.fr/hal-01304241>.

- N. Massacret, J. Moysan, M.A. PLOIX, J.P. Jeannot, and G. Corneloup. Simplified modelling of liquid sodium medium with temperature gradient from thermohydraulic measurements to simulate wave propagation in liquid sodium. Application to ultrasonic thermometry in Sodium Fast Reactor. In *7th Meeting of the Anglo-French-Research-Group (GDRE), WAVE PROPAGATION IN COMPLEX MEDIA FOR QUANTITATIVE AND NON DESTRUCTIVE EVALUATION*, Oléron, France, June 2012a. URL <https://hal.archives-ouvertes.fr/hal-01300008>.
- N. Massacret, J. Moysan, M.A. PLOIX, J. P. Jeannot, and G. Corneloup. Simplified modeling of liquid sodium medium with temperature and velocity gradient using real thermal-hydraulic data. Application to ultrasonic thermometry in sodium fast reactor. In *Review of Progress in Quantitative Nondestructive Evaluation*, volume 1511 of *AIP Conference Proceedings*, pages 1693–1700, Denver, United States, 2012b. AIP Publishing. doi: 10.1063/1.4789245. URL <https://hal.archives-ouvertes.fr/hal-01300004>.
- Jean-Philippe Zardan, Cécile Gueudré, and Gilles Corneloup. To the ultrasonic characterization of fiber displacements in composite materials for aeronautic. In *COFREND*, Dunkerque, France, 2011. URL <https://hal.archives-ouvertes.fr/hal-01304244>.
- F. Baqué, K. Paumel, G. Corneloup, M.A. PLOIX, and J. M. Augem. Non destructive examination of immersed structures within liquid sodium. In *2011 2nd International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA)*, pages 1–5, Ghent, Belgium, 2011. doi: 10.1109/ANIMMA.2011.6172879. URL <https://hal.archives-ouvertes.fr/hal-01300016>.
- G. Corneloup, J. Moysan, M.A. PLOIX, Jean-François Chaix, M. Cavaro, M. Gillot-Lamure, K. Paumel, F. Baqué, J.P. Jeannot, N. Massacret, and O. Gastaldi. Le contrôle non destructif des structures immergées dans du sodium liquide. In *Journées COFREND*, Dunkerque, France, 2011. URL <https://hal.archives-ouvertes.fr/hal-01300015>.
- M.A. PLOIX, Jean-François Chaix, G. Corneloup, and F. Baqué. Potentiel du contrôle ultrasonore d’une plaque masquée par des écrans parallèles. In *Journées COFREND*, Dunkerque, France, 2011. URL <https://hal.archives-ouvertes.fr/hal-01300013>.
- J. Moysan, G. Corneloup, B. Chassignole, C. Gueudré, and M.A. PLOIX. Modelling welded material for ultrasonic testing using MINA: Theory and applications. In *Review of Progress in Quantitative Nondestructive Evaluation*, volume 1430 of *AIP Conference Proceedings*, pages 1219–1226, Burlington, United States, 2011. AIP Publishing. doi: 10.1063/1.4716358. URL <https://hal.archives-ouvertes.fr/hal-01300007>.
- Lili Ganjehi, Vincent Dorval, Frédéric Jenson, Gilles Corneloup, and Joseph Moysan. Etude théorique et expérimentale de l’effet de la structure des métaux sur la propagation d’une onde acoustique. Application au contrôle non-destructif. In Société Française d’Acoustique SFA, editor, *10ème Congrès Français d’Acoustique*, pages –, Lyon, France, April 2010. URL <https://hal.archives-ouvertes.fr/hal-00546824>.
- Cécile Gueudré, Mathieu Chekroun, Joseph Moysan, and Gilles Corneloup. Search of the Order of Passes of an Austenitic Weld by Optimization of an Inversion Process of Ultrasound Data. In *Review of Progress in Quantitative NDE*, San Diego, United States, 2010. URL <https://hal.archives-ouvertes.fr/hal-01304054>.
- G. Corneloup, M.A. PLOIX, Jean-François Chaix, I. Lillamand, and F. Baqué. POTENTIAL OF ULTRASOUNDS FOR NDT OF A STRUCTURE LOCATED BEHIND PARALLEL IMMERSSED PLATES. In *Review of Progress in Quantitative NonDestructive Evaluation*, volume 1335 of *AIP Conference Proceedings*, pages 1695–1700, San Diego, United States, 2010. AIP Publishing. doi: 10.1063/1.3592132. URL <https://hal.archives-ouvertes.fr/hal-01300017>.

Olivier Dupond, Feuilly Nicolas, Bertrand Chassignole, Thierry Fouquet, Joseph Moysan, and G. Corneloup. Relation between ultrasonic scattering and microstructure of polycrystalline materials. In *6th Groupe De Recherche 2501 and 9th Anglo-French Physical Acoustics Joint Conference*, Caste Green, United Kingdom, 2010. doi: 10.1088/1742-6596/269/1/012010. URL <https://hal.archives-ouvertes.fr/hal-01303235>.