

Liste classée des publications

Articles dans des revues internationales indexées

1. S. Bakhouché, W. Larbi, J.-F. Deü, P. Macquart. Metamodel-based sensitivity analysis and optimization of transmission loss in roller shutter boxes, *Building Acoustics*, ;0(0), 2026. DOI:[10.1177/1351010X251415088](https://doi.org/10.1177/1351010X251415088). Q2
2. S. Bakhouché, W. Larbi, R. Aloui, J.-F. Deü, P. Macquart. Global sensitivity analysis of sound attenuation in double-wall system with porous layer, *Mechanics of Advanced Materials and Structures*, Volume 31, Issue 26, p. 8417-8429, 2024. DOI:[10.1080/15376494.2023.2258611](https://doi.org/10.1080/15376494.2023.2258611). Q1
3. S. Bakhouché, W. Larbi, J.-F. Deü, P. Macquart. Numerical and experimental investigation of sound transmission through roller shutter boxes, *Applied Acoustics*, Volume 214, 2023. DOI:[10.1016/j.apacoust.2023.109679](https://doi.org/10.1016/j.apacoust.2023.109679). Q1

Chapitres d'ouvrages

1. S. Bakhouché, W. Larbi, P. Macquart, J.-F. Deü. (2025). Microstructural Optimization of Polyurethane Foams for Acoustic Performance in Double-Wall Systems Using Genetic Algorithms. In: N. Feki, et al. *Advances in Integrated Design and Production III*. Springer, Cham. DOI:[10.1007/978-3-032-04742-7_10](https://doi.org/10.1007/978-3-032-04742-7_10).
2. S. Bakhouché, W. Larbi, P. Macquart, J.-F. Deü. (2025). Sensitivity Analysis of Acoustic Performance in Double Walls with Porous Layers Using the Finite Transfer Matrix Method and Kriging Metamodel. In: A. Öchsner, H. Altenbach (eds) *Engineering Design Applications VII*. Springer, Cham. DOI:[10.1007/978-3-031-84346-4_1](https://doi.org/10.1007/978-3-031-84346-4_1).
3. S. Bakhouché, W. Larbi, J.-F. Deü, P. Macquart. (2025). Sound Radiation from Double Wall Structure with Poroelastic Layers. In: *ENUMATH 2023*. Springer, Cham. DOI:[10.1007/978-3-031-86173-4_9](https://doi.org/10.1007/978-3-031-86173-4_9).
4. S. Bakhouché, W. Larbi, P. Macquart, J.-F. Deü. (2024). Sensitivity Analysis of Sound Transmission in Double-Wall Structures with Porous Layers Using Chaos Polynomial. Springer, Cham. https://doi.org/10.1007/978-3-031-67152-4_32.
5. S. Bakhouché, W. Larbi, J.-F. Deü, P. Macquart. (2023). Experimental and Numerical Characterization of the Acoustic Behavior of a Roller Shutter Box. Springer, Cham. DOI:[10.1007/978-3-031-34190-8_12](https://doi.org/10.1007/978-3-031-34190-8_12).

Articles dans les actes de conférences internationales

1. **Global sensitivity analysis of acoustic performance in fluid-structure coupled systems with porous layers: a kriging metamodel approach**
S. Bakhouché*, W. Larbi, P. Macquart, J.-F. Deü. Proceedings of the 16th Congress of Mechanics, CMM2024, Marrakech, Morocco, May 21-24, 2024. ([Lien](#))
2. **Vibro-acoustic analysis of foam-coated plates: modeling and a comparative study of Biot-Allard and equivalent fluid models**
S. Bakhouché, W. Larbi*, P. Macquart, J.-F. Deü. Proceedings of the 16th Congress of Mechanics, CMM2024, Marrakech, Morocco, May 21-24, 2024. ([Lien](#))
3. **Global sensitivity analysis of sound transmission loss of double-wall with porous layers**
S. Bakhouché*, R. Aloui, W. Larbi, J.-F. Deü, P. Macquart. Proceedings of the 10th International Conference on Coupled Problems in Science and Engineering, COUPLED 2023, Chania, Crete, Greece, June 5-7, 2023. ([Lien](#))
4. **Sound insulation optimization of a roller shutter box**
S. Bakhouché, W. Larbi*, J.-F. Deü, P. Macquart. Proceedings of the 10th International Conference on Coupled Problems in Science and Engineering, COUPLED 2023, Chania, Crete, Greece, June 5-7, 2023. ([Lien](#))
5. **Sound transmission reduction of double walls using porous and viscoelastic materials**
S. Bakhouché, W. Larbi*, J.-F. Deü, P. Macquart. Proceedings of the 7th Noise and Vibration Emerging Methods Conference, NOVEM 2023, Auckland, New Zealand, January 10-12, 2023. ([Lien](#))

Synthèse globale

Catégorie	Nombre de publications
Articles dans revues internationales	3
Chapitres d'ouvrages	5
Actes de conférences internationales	5
Total général	13 publications