

Dynamics Modeling and Optimization of Locally Resonant Metastructures for Vibration Suppression and Energy Harvesting = Dünaamiline modelleerimine ja optimeerimine kohalikult resonantsete metastruktuuride jaoks vibratsiooni summutamiseks ja energia kogumiseks

Alimohammadi, Hossein 2025 https://www.ester.ee/record=b5767448*est <https://digikogu.taltech.ee/et/Item/06e0647d-9b4e-4151-a6e6-364daf9a2937> <https://doi.org/10.23658/taltech.79/2025>

Exploring internally coupled resonator's dynamics and spatial variability in metamaterials for vibration suppression

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; Petlenkov, Eduard Active and Passive Smart Structures and Integrated Systems XVII 2024 / art. 1294614 <https://doi.org/10.1117/12.3024067> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

GeTe2 phase change material for terahertz devices with reconfigurable functionalities using optical activation

Konnikova, Maria R.; Khomenko, Maxim D.; Tverjanovich, Andrey S.; **Bereznev, Sergei**; Mankova, Anna A.; Parashchuk, Olga D.; Vasilevsky, Ivan S.; Ozheredov, Ilya A.; Shkurinov, Alexander P.; Bychkov, Eugene A. ACS applied materials & interfaces 2023 / p. 9638-9648 <https://doi.org/10.1021/acsami.2c21678> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Harvesting energy and stability insights in internally coupled resonator systems

Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia Kani, Seyed Hassan; Petlenkov, Eduard Proceedings, IEEE 18th International Conference on Advanced Motion Control, AMC2024, February 28-March 1, 2024 2024 / p. 1-6 : ill <https://doi.org/10.1109/AMC58169.2024.10505680>

Low-frequency non-reciprocal sound propagation features in thermoacoustic waveguide

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Nonlinear dynamics in PEH for enhanced power output and vibration suppression in metastructures

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Piezoelectric compensation of structural damping in metamaterial beams: stability and performance analysis

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Strain wave propagation through felt-like material

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