

# **Body zero frequency modes in photonic crystals of nanopores and nanocylinders**

**Sergentu Vladimir, Ursaki Veaceslav, Sirbu Lilian**

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## **Abstract**

In this paper, we demonstrate that body zero frequency modes can exist at extremely low frequencies in a system of nanocylinders made of non-dissipative material. Such kind of modes is not specific to single nanocylinders, but they resemble modes inherent to photonic crystals.