

A cluster of many small holes with negative imaginary surface impedances may generate a negative refraction index
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Multiscale analysis of the acoustic scattering by many scatterers of impedance type
Challa, Durga Prasad; Sini, Mourad Zeitschrift für angewandte Mathematik und Physik 2016 / art. 58, p. 1-31 : ill
<http://dx.doi.org/10.1007/s00033-016-0652-0>