# Article information:

Acoustic metamaterials: From local resonances to broad horizons | Science Advances  
<https://www.science.org/doi/10.1126/sciadv.1501595>

# Article summary:

1. Acoustic metamaterials have emerged as an active field with diverse application potentials, from local resonances to negative constitutive parameter values.

2. The review explores the various functionalities of acoustic metamaterials, including superresolution, cloaking, phase manipulation, absorption, and actively controllable structures.

3. Emerging directions in acoustic metamaterials include moving media, nonlinearity, and graphene-inspired composites.

# Article rating:

Appears strongly imbalanced: The article is written in a biased or one-sided way, and the information it provides is not trustworthy enough to be considered a reliable source. You should consult other sources to find reliable information on the presented issues.

# Article analysis:

作为一篇关于声学超材料的综述文章，该文对声学超材料的发展历程、应用前景和新方向进行了介绍。然而，该文存在以下问题：

1. 偏袒：该文只介绍了声学超材料的优点和应用前景，没有提及其潜在风险和局限性。例如，在实际应用中，声学超材料可能会受到环境因素的影响而失去效果。

2. 片面报道：该文只介绍了声学超材料的正面成果，没有提及其研究过程中遇到的挑战和困难。这种片面报道可能会误导读者对声学超材料的认识。

3. 缺失考虑点：该文没有涉及到声学超材料在实际应用中可能遇到的法律、伦理和社会问题。例如，在使用声学超材料进行隐形技术时，如何平衡个人隐私权与国家安全需要之间的冲突？

4. 未探索反驳：该文没有探讨与声学超材料相关的争议或反对意见，并未给出任何反驳或解释。这种做法可能会使读者产生质疑或不信任。

5. 宣传内容：该文有时候似乎在宣传声学超材料的优点和应用前景，而不是客观地介绍其研究进展和发现。这种宣传内容可能会影响读者对声学超材料的判断。

综上所述，该文虽然介绍了声学超材料的发展历程和应用前景，但存在偏袒、片面报道、缺失考虑点、未探索反驳和宣传内容等问题。为了更全面地了解声学超材料，读者需要寻找其他来源的信息，并进行深入思考和分析。

# Topics for further research:

* Limitations and risks of acoustic metamaterials
* Challenges and difficulties in the research of acoustic metamaterials
* Legal
* ethical
* and social issues related to the use of acoustic metamaterials
* Controversies and opposing views on acoustic metamaterials
* Objective reporting of research progress and findings on acoustic metamaterials
* Critical analysis and evaluation of the potential of acoustic metamaterials.

# Report location:

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