
Editorial decision on a manuscript that you reviewed for Advanced Engineering Materials (adem.202500155R4)

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thay mặt cho
Advanced Engineering Materials <em@editorialmanager.com>

Ngày T2 23/06/2025 10:59 SA

Đến Bùi Hữu Nguyên <buihuunguyen@humg.edu.vn>

Dear Dr Bui,

Some time ago you were so kind to review the manuscript "Flexible and Wearable Metasurfaces of Spiral Quartet Arrays for boosting SNR of 1.5T Magnetic Resonance Imaging" by Mr. Jegyasu Gupta (Research Article, No. adem.202500155R4) for Advanced Engineering Materials.

We would like to let you know that based on the editorial assessment and overall reviewer feedback the manuscript has now been accepted for publication in Advanced Engineering Materials.

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Thank you again for your report. We are grateful for your time and expertise, which help to maintain the high standards of Advanced Engineering Materials.

Best regards,

Shaoying Cui

Reviewer report for the final version of adem.202500155R4 (where applicable):

Please note that reviewers may not be numbered consecutively. Where reviewers have provided additional files, these are available here:

EVALUATION:

COMMENTS TO AUTHOR:

Abstract:

Jegyasu Gupta; Ratnajit Bhattacharjee; Subramani Kanagaraj; Debabrata Sikdar

Magnetic resonance imaging (MRI) has established itself as a cornerstone imaging modality in modern radiology, delivering high-resolution insights for comprehensive disease detection and therapeutic monitoring. Metamaterials have significantly advanced MRI imaging capabilities by enhancing its signal-to-noise ratio (SNR) through their remarkable ability to confine and amplify electromagnetic fields when placed as clinical add-ons between the patients and transceiver arrays during scans. However, considerable obstacles continue to hinder the widespread clinical adoption of conventional metamaterials, mainly because of their typically bulky and rigid designs, along with their inability to adapt to varying shapes and anatomies of different subjects. Herein, to resolve these limitations, we developed a flexible metasurface of spiral quartet arrays for boosting the SNR of 1.5T MRI, enabling efficient imaging of body parts with varying curvatures. Laboratory experiments of developed metasurface demonstrate a peak enhancement of six-fold in the RF magnetic fields inside the phantom wrapped with metasurface. In addition, MRI scans acquired using the designed metasurface achieved a four-fold boost in SNR compared to those obtained using only the receiver coils. Thus, the developed flexible metasurface presents an opportunity for creating metamaterial-inspired devices as clinical accessories, facilitating more efficient, faster, and cost-effective MRI scans.

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Dr. Shaoying Cui, Editor
Advanced Engineering Materials
E-mail: aem@wiley-vch.de

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