

Publications of Habib Ammari

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Monographs

1. H. Ammari, B. Davies, and E.O. Hiltunen, Mathematical theories for metamaterials: From condensed matter theory to subwavelength physics. *NSF-CBMS Regional Conf. Ser.*, American Mathematical Society, 2025, to appear.
2. H. Ammari and B. Davies, Metamaterial Analysis and Design. *De Gruyter Series in Applied and Numerical Mathematics*, Volume 9, 2023.
3. H. Ammari, B. Fitzpatrick, H. Kang, M. Ruiz, S. Yu, and H. Zhang, Mathematical and Computational Methods in Photonics and Phononics. *Mathematical Surveys and Monographs*, Volume 235, American Mathematical Society, Providence, 2018, 509 pages.
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Edited books

1. H. Ammari, Y. Capdeboscq, H. Kang, and I. Sim, Imaging, Multi-Scale and High Contrast PDE. *Contemporary Mathematics*, Volume 660, American Mathematical Society, Providence, 2016.

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5. H. Ammari, J. Garnier, H. Kang, and K. Sølna, Mathematical and Statistical Methods for Imaging. *Contemporary Mathematics*, Volume 548, American Mathematical Society, Providence, 2011.
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8. H. Ammari, Mathematical methods for imaging and inverse problems. Proceedings of the seminar held in Paris, 2007–2008. *ESAIM Proceedings*, 26. EDP Sciences, Les Ulis, 2009.
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Papers in peer-reviewed journals

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5. H. Ammari, B. Davies and E.O. Hiltunen, Spectral convergence in large finite resonator arrays: the essential spectrum and band structure. *Bulletin of the London Mathematical Society*, 57 (2025), no. 3, 730–747.
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