

Papers in referred international journals:

1. D. Vass, A. Szenes, B. Bánhelyi, M. Csete: „*Time-varying wave phenomena in optimized configurations of ENZ materials constructed with layered core-shell nanoresonators*”, prepared for publication in OMEX.
2. D. Vass, A. Szenes, B. Bánhelyi, M. Csete: „*Impedance matched amplifiers and amplifying mirrors by tailoring the band-structure of layered core-shell nanoresonators*”, prepared for publication in OMEX.
3. D. Vass, A. Szenes, B. Bánhelyi, M. Csete: „*Lasing and spasing with active individual core-shell plasmonic nanoresonators*“, submitted to Optics and Laser Technology (2023), <https://arxiv.org/abs/2404.12714>.
4. A. Szenes, D. Vass, O. Fekete, E. Tóth, B. Bánhelyi, M. Csete: “*Active individual nanoresonators optimized for lasing and spasing operation*”, Nanomaterials, **11(5)** (2021) 1322, <https://doi.org/10.3390/nano11051322>

Refereed conference proceedings, book-chapters:

1. D. Vass, A. Szenes, E. Tóth, B. Bánhelyi, M. Csete: “*Epsilon-near-zero metamaterials constructed with active core-shell nanoresonators*”, poster at the 18th International Congress on Artificial Materials for Novel Wave Phenomena – Metamaterials 2024, Crete, <https://ieeexplore.ieee.org/abstract/document/10703248>.
2. Szenes, D. Vass, E. Tóth, B. Bánhelyi, M. Csete: “*Gold nanorod multilayer targets for coherent perfect absorption*”, poster at the 18th International Congress on Artificial Materials for Novel Wave Phenomena – Metamaterials 2024, Crete, <https://ieeexplore.ieee.org/document/10703293>.
3. D. Vass, A. Szenes, B. Bánhelyi, M. Csete: „*Metamaterials for enhancing reflection and transmission*”, talk at the 17th International Congress on Artificial Materials for Novel Wave Phenomena – Metamaterials 2023, Crete, IEEE Xplore: 10.1109/Metamaterials58257.2023.10289339. <https://doi.org/10.1109/Metamaterials58257.2023.10289339>
4. E. Tóth, O. Fekete, B. Bánhelyi, M. Csete: „*Enhancement of lasing via complex plasmonic structures*“, FIO OSA conference, October 17-20, 2022, Rochester, New York, USA, JW4A.89 in ISBN: 978-1-957171-17-3, <https://doi.org/10.1364/FIO.2022.JW4A.89>
5. D. Vass, A. Szenes, B. Bánhelyi, M. Csete: „*Individual plasmonic nanoresonators for lasing and spasing*“, FIO OSA conference, October 17-20, 2022, Rochester, New York, USA, JW5A.55 in ISBN: 978-1-957171-17-3 <https://doi.org/10.1364/FIO.2022.JW5A.55>