

Papers in referred international journals:

1. E. Tóth, B. Bánhelyi, Á. Sipos, O. A. Fekete, M. Csete: „*Babinet complementary patterns of miniarrays for plasmonic spectral engineering and complex structure enhanced lasing*“, prepared for publication in *Plasmonics* (2024).
2. E. Tóth, O. Fekete, B. Bánhelyi, M. Durach, Zs. Szabó, M. Csete: „*Layered Babinet complementary patterns acting as asymmetric negative index metamaterial*“, *Scientific Reports* (2024), 14 (2024) 29568, <https://doi.org/10.1038/s41598-024-79629-z>
3. E. Tóth, B. Bánhelyi, O. Fekete, M. Csete: „*Metamaterial properties of Babinet complementary complex structures*“, *Scientific Reports* **13**(1) (2023) 4701, <https://doi.org/10.1038/s41598-023-31685-7>
4. Á. Sipos, E. Tóth, O. Fekete, M. Csete: "Spectral engineering via complex patterns of circular nano-object mini-arrays: I convex patterns tunable by integrated lithography realized by circularly polarized light", *Plasmonics* **16** (2020) 661-676, <https://doi.org/10.1007/s11468-020-01235-2>
5. E. Tóth, Á. Sipos, O. Fekete, M. Csete: "Spectral engineering via complex patterns of circular nano-object mini-arrays: II concave patterns tunable by integrated lithography realized by circularly polarized light", *Plasmonics* **16** (2020) 599-617, <https://doi.org/10.1007/s11468-020-01298-1>
6. Á. Sipos, A. Somogyi, G. Szabó, M. Csete: "Plasmonic spectral engineering via interferometric illumination of colloid sphere monolayers", *Plasmonics* **9** (2014) 1207-1219, <https://doi.org/10.1007/s11468-014-9732-1>
7. Á. Sipos, A. Szalai, M. Csete "Integrated lithography to prepare periodic arrays of nano-objects", *Applied Surface Science* **278/1** (2013) 330-335, <https://doi.org/10.1016/j.apsusc.2012.11.078>
8. M. Csete, Á. Sipos, A. Szalai, G. Szabó: „*Theoretical study on interferometric illumination of gold colloid sphere monolayers to produce complex structures for spectral engineering*”, *IEEE Photonics Journal*, **4/5** (2012) 1909-1921, <https://doi.org/10.1109/JPHOT.2012.2218587>
9. Á. Sipos, H. Tóháti, A. Szalai, A. Mathesz, M. Görbe, T. Szabó, M. Szekeres, B. Hopp, M. Csete, I. Dékány: “*Plasmonic structure generation by laser illumination of silica colloid spheres deposited onto prepatterned polymer-bimetal films*”, *Appl. Surf. Sci.* **225/10** (2009) 5138-5145, <https://doi.org/10.1016/j.apsusc.2008.08.113>

Refereed conference proceedings, book-chapters:

1. E. Tóth, O. Fekete, B. Bánhelyi, M. Csete: “*Asymmetric properties of Babinet complementary metamaterial multilayers*”, talk at the 18th International Congress on Artificial Materials for Novel Wave Phenomena – Metamaterials 2024, Crete, <https://ieeexplore.ieee.org/document/10703294>.
2. E. Tóth, O. Fekete, B. Bánhelyi, M. Csete: „*Metamaterial properties of layered Babinet complementary patterns*”, talk at the 17th International Congress on Artificial Materials for Novel Wave Phenomena – Metamaterials 2023, Crete, IEEE Xplore: 10.1109/Metamaterials58257.2023.10289493. <https://doi.org/10.1109/Metamaterials58257.2023.10289493>
3. Á. Sipos, E. Tóth, A. Török, O. Fekete, G. Szabó, M. Csete: “*Spectral engineering via complex patterns of rounded concave and convex nanoresonators achievable via integrated lithography realized by circularly polarized light*”, <https://briefs.techconnect.org/wp-content/volumes/TCB2019/pdf/735.pdf>, *TechConnect Briefs 2019*, TechConnect.org, ISBN 978-0-9988782-8-7, 373-376. <https://doi.org/10.1007/s11468-020-01235-2>
4. Á. Sipos, A. Szalai, M. Csete: “*Integrated lithography to prepare arrays of rounded nano-objects*”, *Proceedings of SPIE Advanced Lithography conference, 2012*, Proc. SPIE 8323,

Alternative Lithographic Technologies IV, 83232E (2012), San Jose, US, poster.
<https://doi.org/10.1117/12.916403>