

Stanford

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Bio

ACADEMIC APPOINTMENTS

- Phys Sci Res Assoc, T. H. Geballe Laboratory for Advanced Materials

Publications

PUBLICATIONS

- **Transfer Matrix Method-Compatible Model for Metamaterial Stacks** *ACS PHOTONICS*

Song, J., Lalanne, P., Seo, M., Brongersma, M. L.
2023

- **A Purcell-enabled monolayer semiconductor free-space optical modulator** *NATURE PHOTONICS*

Li, Q., Song, J., Xu, F., van de Groep, J., Hong, J., Daus, A., Lee, Y., Johnson, A. C., Pop, E., Liu, F., Brongersma, M. L.
2023

- **Quantitative phase contrast imaging with a nonlocal angle-selective metasurface.** *Nature communications*

Ji, A., Song, J. H., Li, Q., Xu, F., Tsai, C. T., Tiberio, R. C., Cui, B., Lalanne, P., Kik, P. G., Miller, D. A., Brongersma, M. L.
2022; 13 (1): 7848

- **Metasurface optofluidics for dynamic control of light fields.** *Nature nanotechnology*

Li, Q., van de Groep, J., White, A. K., Song, J., Longwell, S. A., Fordyce, P. M., Quake, S. R., Kik, P. G., Brongersma, M. L.
2022

- **Non-local metasurfaces for spectrally decoupled wavefront manipulation and eye tracking.** *Nature nanotechnology*

Song, J., van de Groep, J., Kim, S. J., Brongersma, M. L.
2021

- **Nanoelectromechanical modulation of a strongly-coupled plasmonic dimer.** *Nature communications*

Song, J., Raza, S., van de Groep, J., Kang, J., Li, Q., Kik, P. G., Brongersma, M. L.
2021; 12 (1): 48

- **Direct laser writing of volumetric gradient index lenses and waveguides.** *Light, science & applications*

Ocier, C. R., Richards, C. A., Bacon-Brown, D. A., Ding, Q., Kumar, R., Garcia, T. J., van de Groep, J., Song, J., Cyphersmith, A. J., Rhode, A., Perry, A. N., Littlefield, A. J., Zhu, et al
2020; 9 (1): 196

- **High quality factor phase gradient metasurfaces.** *Nature nanotechnology*

Lawrence, M., Barton, D. R., Dixon, J., Song, J., van de Groep, J., Brongersma, M. L., Dionne, J. A.
2020