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Materials Integration by Nanointaglio TROY LOWRY, Department of Biological Sciences and Integrative Nanoscience Institute, Department of Physics, Florida State University, AUBREY KUSI-APPIAH, Department of Biological Sciences and Integrative Nanoscience Institute, Florida State University, JINGJIAO GUAN, Department of Chemical and Biomedical Engineering, Florida State University, DAVID VAN WINKLE, Department of Physics, Florida State University, MICHAEL DAVIDSON, The National High Magnetic Field Laboratory, Florida State University, STEVEN LENHERT, Department of Biological Sciences and Integrative Nanoscience Institute, Florida State University — Nanointaglio[1] is a printing process from a microstructured intaglio stamp that in combination with established microarray technology is suitable for heterogeneous materials integration of lipid multilayer micro- and nanostructures. Nanointaglio offers both size dependent functionality and massively parallel materials integration capabilities. The scalable, multi-integrative characteristics of nanointaglio have potential applications in high throughput screening and biosensor arrays.

[1]Lowry, T. W. Kusi-Appiah, A., Guan, J., Van Winkle, D.H., Davidson, M.W., Lenhert, S. Materials Integration by Nanointaglio. Advanced Materials Interfaces 1, doi:10.1002/admi.201300127 (2014).

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