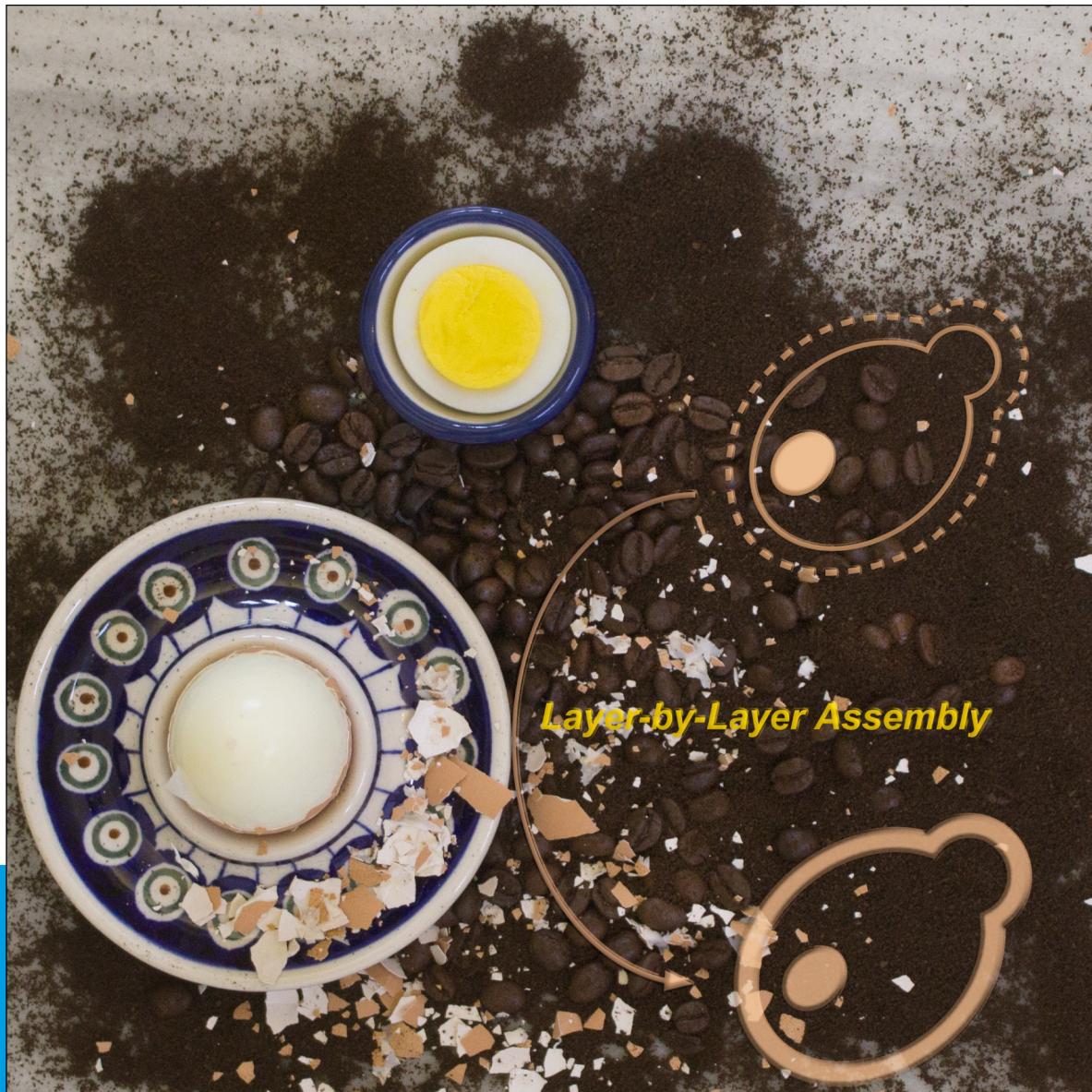


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Cover Feature:

Insung S. Choi et al.

Hydrogen Bonding-Based Layer-by-Layer Assembly of Nature-Derived Eggshell Membrane Hydrolysates and Coffee Melanoidins in Single-Cell Nanoencapsulation

WILEY-VCH

Layer-by-layer (LbL) assembly of food waste-derived materials, eggshell membrane hydrolysates and coffee melanoidins, is applied to the single-cell nanoencapsulation (SCNE) of *Saccharomyces cerevisiae*. The hydrogen bonding-based LbL process is extremely cytocompatible (viability > 99%), and the cell is protected from external assaults, such as heavy metals and UV-B, after the SCNE. The shell's durability is further augmented by ferric ion-mediated cross-linking. More information can be found in the Research Article by Insung S. Choi et al. Photo credit: E. K. Kang.



*S. Y. Han, Dr. G. Yun, D. T. Nguyen,
E. K. Kang, Dr. H. Lee, S. Kim, Prof. B. J.
Kim, Prof. J. H. Park, Prof. I. S. Choi**

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