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Self-organization of nanoparticles into highly ordered lattices with protein nanocages as an atomically precise ligand shell

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We have established a novel method for the self-organization of biomolecular building blocks and nanoparticles. Here, protein containers, engineered with opposite surface charge, are used as an atomically precise ligand shell for the assembly of inorganic nanoparticles. The assembly of protein-nanoparticle composites through supramolecular interactions yields highly ordered nanoparticle superlattices with unprecedented precision.

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