Supplementary Materials:

Predictor packing in developing unprecedented shaped colloidal particles

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**Figure S1:** Inside diameter and thickness of copper capillary just placed over the surface of solution (~ 4 mm above) in glass beaker having inner diameter 10.5 cm.
Figure S2: Signatures of nano shape energy, impinging electron streams and light glow including photons dealing monolayer assembly of gold atoms at solution surface
**Figure S3:** Approximate distribution of surface format axes with respect opposite poles along with zero-force axis where low degree angles packing of triangular-shaped tiny particles is along the rear north and south poles resulting into develop rod-/bar-shaped particles.

**Figure S4:** Different geometric anisotropic shaped particles developed under predictor packing of elongated triangular-shaped tiny particles having structure of smooth elements; (1) hexagonal-, (2) rhombus-, (3) bar-, (4) pentagonal-, (5) rod-shaped particles.