Supplementary Materials:

Predictor packing in developing unprecedented shaped colloidal particles

Mubarak Ali [a], I –Nan Lin [b] and C. –J. Yeh [c]

[a] Department of Physics, COMSATS Institute of Information Technology, Islamabad 45550, Pakistan, Email: mubarak74@comsats.edu.pk, mubarak74@mail.com

[b] Department of Physics, Tamkang University, Tamsui Dist., New Taipei City 25137, Taiwan (R.O.C.). e-mail: inanlin@mail.tku.edu.tw

[c] Department of Engineering and system Science, National Tsing-Hua University, Hsinchu 30013, Taiwan (R.O.C.). e-mail: arayray220@gmail.com

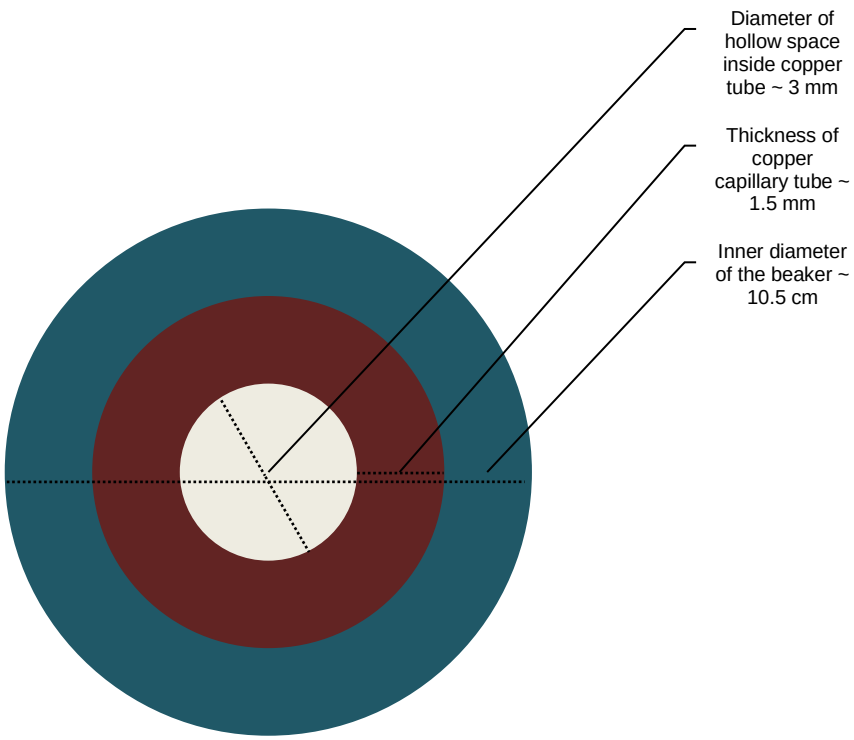

Figure S1: Inside diameter and thickness of copper capillary just placed over the surface of solution (~ 4 mm above) in glass beaker having inner diameter 10.5 cm.

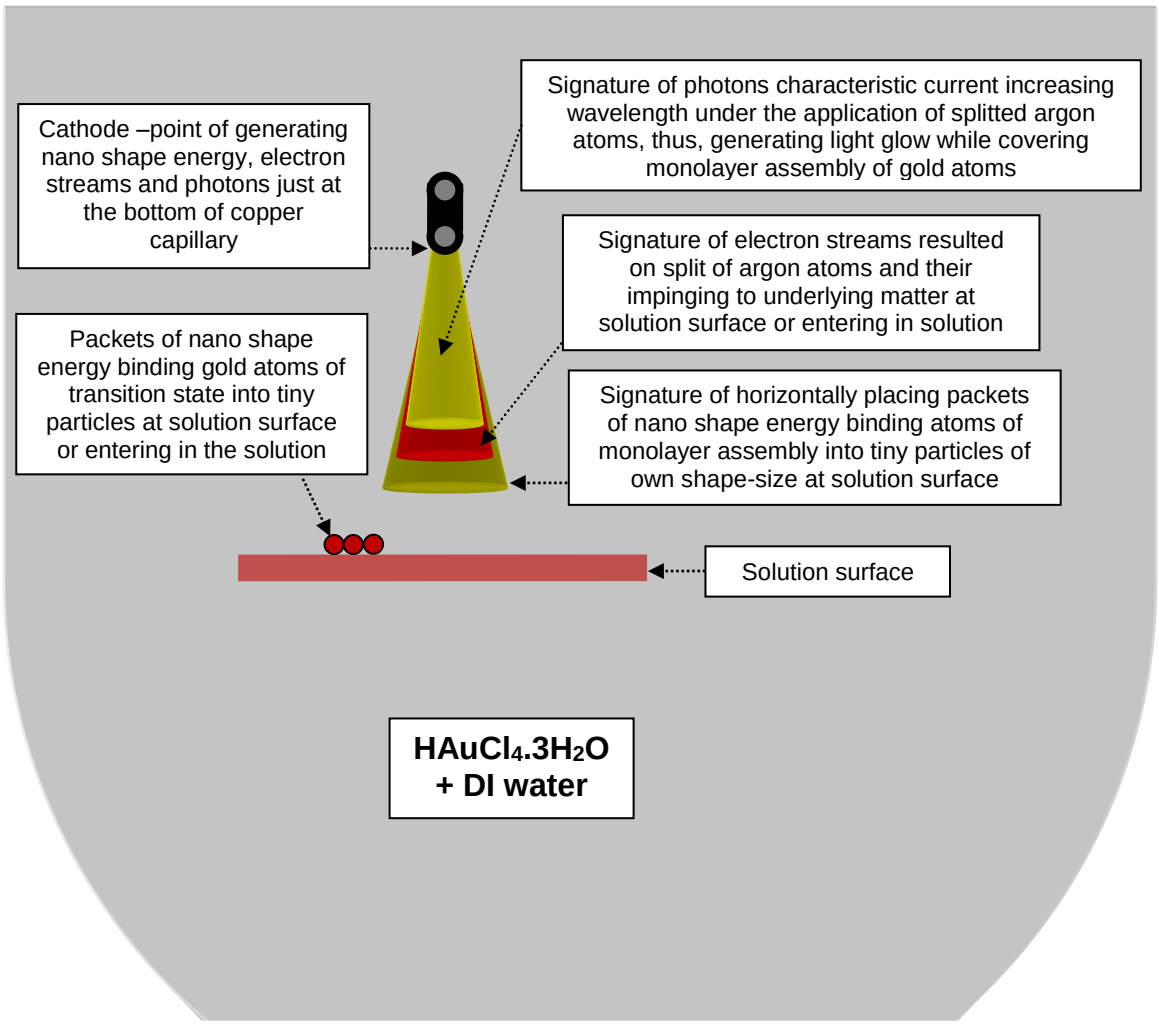

Figure S2: Signatures of nano shape energy, impinging electron streams and light glow including photons dealing monolayer assembly of gold atoms at solution surface

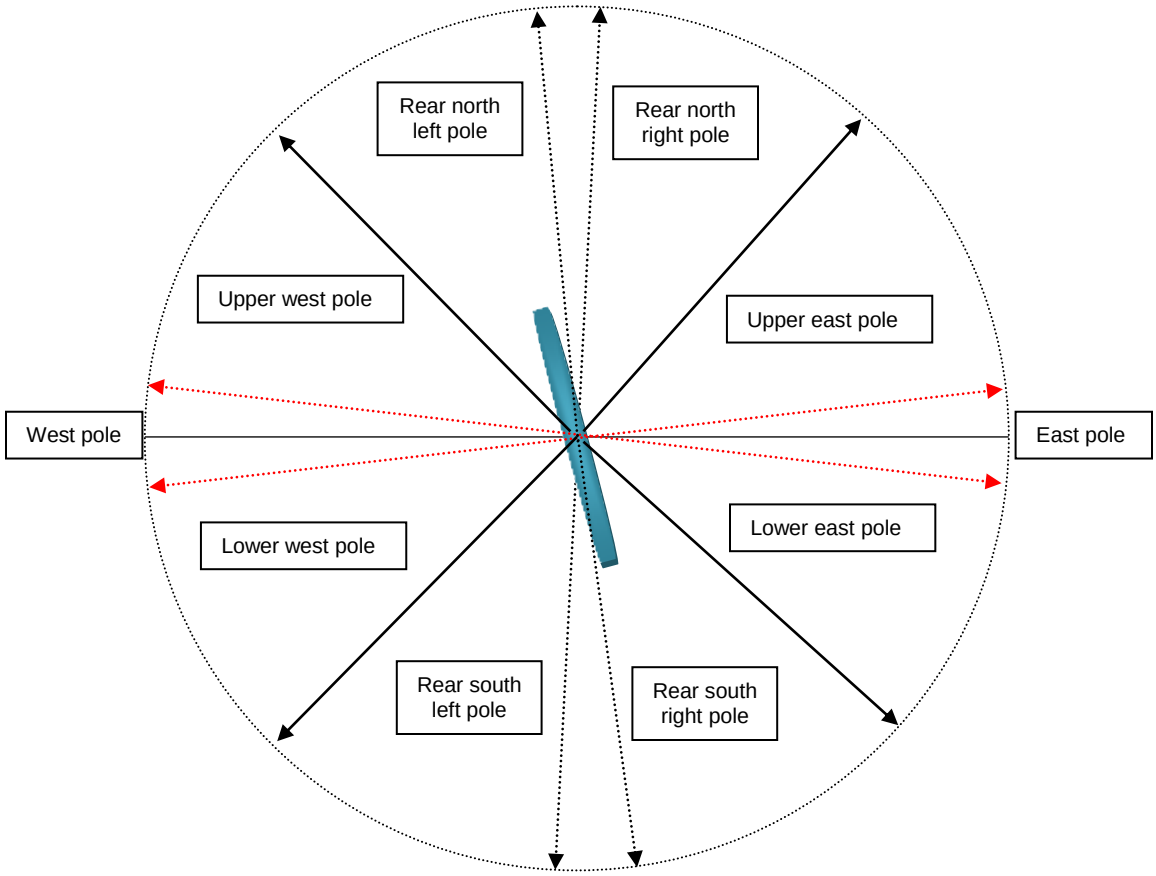

Figure S3: Approximate distribution of surface format axes with respect opposite poles along with zero-force axis where low degree angles packing of triangular-shaped tiny particles is along the rear north and south poles resulting into develop rod-/bar-shaped particles

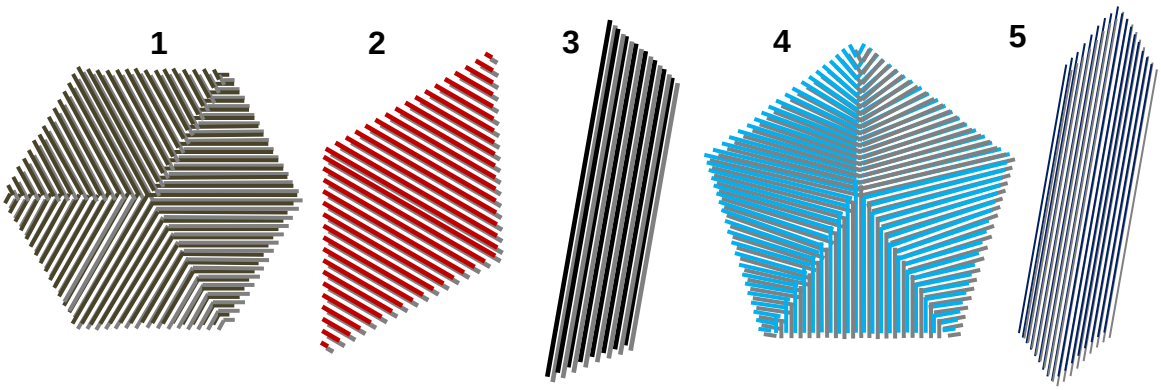

Figure S4: Different geometric anisotropic shaped particles developed under predictor packing of elongated triangular-shaped tiny particles having structure of smooth elements; (1) hexagonal-, (2) rhombus-, (3) bar-, (4) pentagonal-, (5) rod-shaped particles