environment as compared to methods which require the use of harsh and toxic chemicals and/or organic solvents.

Therefore, in various embodiments, the polymer coating is formed over the shell of the primary capsule in a physical or non-chemical manner. Accordingly, in various embodiments, the method does not comprise chemically modifying/functionalizing/coupling/grafting the organic polymer latex particles or the shell of the primary capsule or their surfaces thereof to facilitate an integration of the organic polymer latex particles on or with the shell of the primary capsule. In various embodiments, the method does not comprise providing/adding a chemical curing/cross-linking agent (e.g. glutaraldehyde) or chemically curing/cross-linking the organic polymer latex particles to facilitate an integration of the organic polymer latex particles on or with the shell of the primary capsule. In various embodiments, the method does not comprise chemically/covalently attaching/conjugating/coupling/anchoring/grafting a functional group e.g. an amine group to the organic polymer latex particles or the shell of the primary capsule or their surfaces thereof to facilitate an integration of the organic polymer latex particles on or with the shell of the primary capsule. For example, in various embodiments, the method does not comprise using silane coupling agent such as γ-methacryloxypropyl trimethoxysilane in conjunction with a silica precursor such as tetraethyl orthosilicate (TEOS) to facilitate an integration of an organic material on or with a shell of the primary capsule. In addition, in various embodiments, the method does not comprise providing a preformed commercially available functional polymer such as lupranate (polymeric isocyanate and/or diisocyanate) to facilitate an integration of an organic material on or with a shell of the primary capsule.

In various embodiments, the method does not require providing a block co-polymer such as one derived from poly(2-(dimethylamino)ethyl methacrylate) (PDMA) and poly(benzyl methacrylate) (PBzMA). Such co-polymer are expensive and require many synthesis steps. Additionally, in various