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| **Abstract:** |  |
| Anodic aluminum oxide (AAO) is one of attractive materials which are used for the fabrication of micro and nanostructures. This paper describes the fabrication of three dimensional (3D) microstructures with AAO nano porous membrane. A simple procedure has been adopted to develop microstructures using the same aluminum (Al) sample without any assistance of scaffold or molding process. Various shapes including micro conical tube, micro cone, and micro bowl structures have been fabricated. Those factors have also been analyzed which are affecting the shapes of microstructures like cracks, angle, and geometry. The fabricated 3D shapes have potential applications in drug delivery system. | |