

Method for Producing Optically Transparent, Superhydrophobic, Biocompatible Thin Film Coatings

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Technology Summary

An optically transparent, hydrophobic coating with an average contact angle of 110° was successfully developed using low-cost, environmentally friendly components. A two-part epoxy resin and chemical binder were incorporated into different solutions in order to bind the fatty acids to a glass platform. The improvement over uncoated glass surface was staggering (15° versus 110°). Since inexpensive components were used, this new coating will accomplish the same task as other hydrophobic coatings for a fraction of the cost.

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