

Materials List for:

# A Continuous-flow Photocatalytic Reactor for the Precisely Controlled Deposition of Metallic Nanoparticles

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## Materials

| Name                                                                   | Company                   | Catalog Number            | Comments          |
|------------------------------------------------------------------------|---------------------------|---------------------------|-------------------|
| Chloroplatinic acid solution                                           | Sigma Aldrich             | 262587-50ML               |                   |
| Corning Silicone Septa for GL45 Screw Cap                              | Sigma Aldrich (Corning)   | CLS139545SS               |                   |
| Fused silica (Quartz) tube                                             | Technical Glass Products  |                           |                   |
| Graphite flakes                                                        | Sigma Aldrich             | 332461-2.5KG              |                   |
| Hydrochloric acid                                                      | Sigma Aldrich             | 320331-2.5L               |                   |
| Hydrogen peroxide                                                      | Sigma Aldrich             | H1009-100ML               |                   |
| Hydrogen tetrachloroaurate(III) hydrate                                | Alfa Aesar                | 12325.03                  |                   |
| L-Ascorbic acid                                                        | Sigma Aldrich             | A92902-500G               |                   |
| Polyvinyl chloride pipe                                                | Koçtas                    |                           | UV-Reactor casing |
| Potassium permanganate                                                 | Merck                     | 1050821000                |                   |
| Sodium hydroxide                                                       | Sigma Aldrich             | S5881-1KG                 |                   |
| Sulfuric acid                                                          | Sigma Aldrich             | 1120802500                |                   |
| TiO <sub>2</sub> Nanopowder (TiO <sub>2</sub> , anatase, 99.9%, 100nm) | US research nanomaterials | US3411                    |                   |
| UV-C lamps                                                             | Philips                   | TUV PL-L 55W/4P HF 1CT/25 |                   |